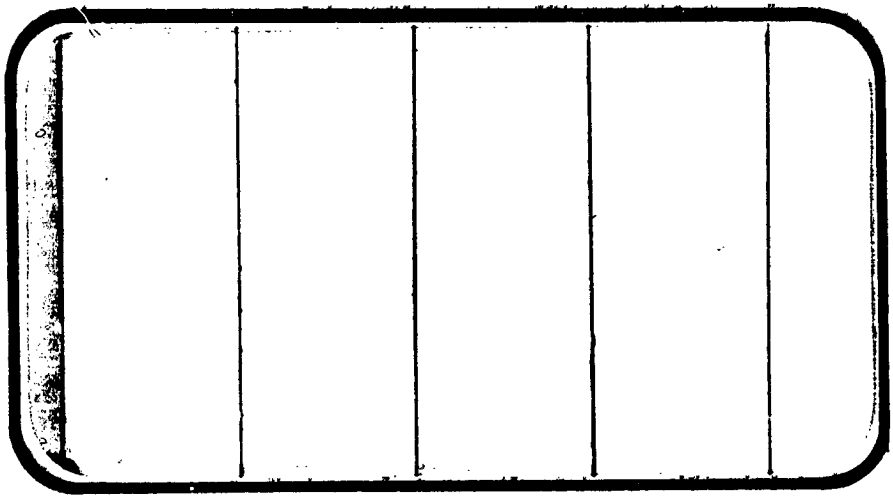
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION



(NASA-CR-151054) RESULTS OF AN INVESTIGATION OF THE SPACE SHUTTLE INTEGRATED VEHICLE AERODYNAMIC HEATING CHARACTERISTICS OBTAINED USING THE 0.0175-SCALE MODEL 60-OTS IN AEDC (Chrysler G3/16 22920

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SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT

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RESULTS OF AN INVESTIGATION OF THE SPACE SHUTTLE INTEGRATED VEHICLE AERODYNAMIC HEATING CHARACTERISTICS OBTAINED USING THE 0.0175-SCALE MODEL 60-OTS IN AEDC TUNNEL A DURING TESTS IH41 AND IH41A

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National Aeronautics and Space Administration
Houston, Texas

WIND TUNNEL TEST SPECIFICS:

Test Number:	AEDC VKF A - V41A-A4A
NASA Series Number:	IH41 and IH41A
Model Number:	60-OTS
Test Dates:	IH41: March 31 through April 2, 1975 IH41A: May 20 and 21, 1975
Occupancy Hours:	56

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RESULTS OF AN INVESTIGATION OF THE SPACE SHUTTLE INTEGRATED VEHICLE AERODYNAMIC HEATING CHARACTERISTICS OBTAINED USING THE 0.0175-SCALE MODEL 60-OTS IN AEDC TUNNEL A DURING TESTS IH41 AND IH41A

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ABSTRACT

A thin-skin thermocouple test was conducted to obtain heat-transfer data on the Space Shuttle Integrated Vehicle during the ascent phase of the flight profile. The test model was the 0.0175-scale thin-skin thermocouple model (60-OTS) of the Rockwell International Vehicle 5 configuration. The test was conducted in Tunnel A at nominal Mach numbers of 2.5, 3.5, 4.5, and 5.5, and a free-stream unit Reynolds number of 5 million per ft. Heat-transfer data were obtained for angles of attack of 0, ±5, and 10 deg and yaw angles of 0, 3, and 6 deg. The Integrated Vehicle model was tested with the external tank configured with both a smooth ogive nose and an ogive nose with a spherical nose tip (nipple nose). The remainder of the test was conducted with the external tank installed alone in the tunnel. The testing required 56 hours of tunnel occupancy from March 30 through April 2 and May 20 through 21, 1975. Results of the test are presented in this report.

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SCHEDULE OF COEFFICIENTS PLOTTED:

(A) H/HREF vs. X/L

HI/HU vs. X/L

INTRODUCTION

The present tests were conducted to obtain heat-transfer-rate data on the Space Shuttle Integrated Vehicle at simulated ascent flight conditions. The components of the vehicle produce a complex flow field with many shock interactions. Although progress has been made in analyzing shock interference heating, experimental data are still relied upon to provide vehicle design information. One technique resulting from analytical studies is the ratioing of interference heating to undisturbed values. During the present tests, the external tank was tested alone so that these heating ratios could be constructed and so data quality could be confirmed.

Much of the information presented in this report was derived from References 1 and 2.

NOMENCLATURE

PLOT SYMBOL	MNEMONIC	DEFINITION
a_1, a_2, a_3		constants used to calculate R, defined in context
ALPHA-PREBEND		sting prebend angle, deg.
ALPHA-SECTOR		tunnel sector angle, deg.
b		model wall thickness, in.
C_P		model wall specific heat, BTU/lbm-^oR
C.R.		center of rotation
$\frac{dTw}{dt}$	DTWDT	derivative of model wall temperature with respect to time, ^oR/sec.
FIT LENGTH		time span over which a linear least squares curve fit of $\left[\ln\left(\frac{T_o - Tw_i}{T_o - Tw}\right) \text{ vs.t}\right]$ was applied, sec.
GRIT	GRIT	code indicating boundary layer transition configuration on model
h_i	HI	heat transfer coefficient in an interference flow field, BTU/ft^2-sec-^oR
h_{REF}	HREF	reference heat transfer coefficient, based on 1-foot full scale radius sphere, based on Fay-Riddell theory, $8.139\sqrt{P_{o_1}}\ \mu_o^{.4}[1 - P_\infty/P_{o_1}]^{.25}/\sqrt{R_N}\ T_o^{.15}$ BTU/ft^2-sec-^oR
h_u	HU	heat transfer coefficient in an undisturbed flow field, BTU/ft^2-sec-^oR
$h(T_o)$	H(TO)	heat transfer coefficient, $\dot{q}/[T_o - Tw]$, BTU/ft^2-sec-^oR

NOMENCLATURE (Continued)

PLOT SYMBOL	MNEMONIC	DEFINITION
$h(.95T_o)$	H(.95 TO)	heat transfer coefficient, $\dot{q}/[.95T_o - Tw]$, BTU/ft^2-sec-^{o}R
$h(RT_o)$	H(TAW)	heat transfer coefficient, $\dot{q}/[RT_o - Tw]$, BTU/ft^2-sec-^{o}R
M_∞	MACH	freestream Mach number
M_e		Mach number at the edge of boundary layer
L_O	L	orbiter reference length, in.
L_S	L	SRB reference length, in.
L_T	L	ET reference length, in.
QTS		mated space shuttle vehicle, orbiter, tank, and SRB
P_o	PO	stagnation pressure, psia
P_{o1}		stagnation pressure downstream of a normal shock, psia
P_∞	PS	freestream static pressure, psia
$\dot{q}$	QDOT	heat transfer rate, BTU/ft^2-sec
q_∞	Q(PSI)	freestream dynamic pressure, psi
r	R	recovery factor
R		analytical temperature ratio, TAW/T_o
R_N		reference nose radius, scaled from 1-foot full scale, ft
RE/FT	RN/L	unit Reynolds number, million per foot
SFR	ST FR	theoretical stagnation point Stanton number for a scaled 1-foot full scale radius sphere from Fay-Riddell theory, $h_{REF}\left[32.174\ P_\infty V_\infty \left(0.2235 + 0.0000135\{T_o + 560\}\right)\right]$

NOMENCLATURE (Continued)

PLOT SYMBOL	MNEMONIC	DEFINITION
SRB		solid rocket booster
t		time, sec
t_{i_1}		initial time, sec
T	T	temperature, ^{o}R
T_e		temperature at edge of boundary layer, ^{o}R
T_o	TO	tunnel stilling chamber temperature, ^{o}R
Tw	TW	model wall temperature, ^{o}R
Tw_i		initial model wall temperature
T_∞		freestream static temperature, ^{o}R
T_{aw}	TAW	adiabatic wall temperature, ^{o}R
T/C NO	T/C NO	thermocouple number
V_∞	V	freestream velocity, ft/sec
w		model wall density, lbm/ft^3
X_O	XO	orbiter longitudinal coordinate, in.
X_S	XS	SRB longitudinal coordinate, in.
X_T	XT	ET longitudinal coordinate, in.
X/L	X/L	longitudinal position as a fraction of fuselage reference length
Y		lateral coordinate, in.
Z		vertical coordinate, in.
α	ALPHA	model angle of attack
β	BETA	model angle of sideslip

NOMENCLATURE (Concluded)

PLOT SYMBOL	MNEMONIC	DEFINITION
γ		ratio of specific heat of air
δ		local model surface angle to freestream flow
δ_{BF}	BDFLAP	body flap deflection angle, deg.
δ_e	ELEVON	elevon deflection angle, deg.
δ_{SB}	SPDBRK	speedbrake deflection angle, deg.
μ	MU	viscosity, lb-sec/ft^2
ρ	RHO	density of air, slug/ft^2
ϕ	PHI	model roll angle, angular location coordinate of T/C on model surface, deg.
ψ		yaw angle, deg.
SUBSCRIPTS		
i		initial condition
e		local condition at edge of boundary layer
O		orbiter
S		SRB
T		ET
∞		freestream condition

CONFIGURATIONS INVESTIGATED

The test model was a 0.0175-scale, thin skin, thermocouple-equipped representation of the Rockwell International Vehicle 5 configuration of the Space Shuttle. Sketches of the model are presented in Figure 2. Figure 3 shows photographs of the model. The integrated model was composed of the orbiter vehicle, external tank, and two solid rocket booster motors.

The external tank was designed with two interchangeable nose tip configurations. The two nose tip profiles are shown in Figure 2. The smooth nose configuration was an extension of the ogive contour of the forward section of the external tank. The nipple nose configuration had a spherical nose tip extended from the ogive contour.

The model was constructed of 17-4 PH stainless steel. The nominal skin thickness was 0.030 in. at the instrumented areas. All thermocouples were spot-welded to the inner surface of the model and the skin thickness was measured at each thermocouple location.

Boundary-layer trips were designed to be form-fitted to the orbiter and the solid rocket boosters. The orbiter and solid rocket booster trips consisted of 0.020-in.-dia. stainless steel balls spot-welded to a thin, stainless steel band. The trips attached to the orbiter at an X_o/L_o of 0.04 and on the solid rocket boosters at an X_s/L_s of 0.019. The trip ring on the external tank consisted of a band of No. 36 Carborundum® grit located at an X_T/L_T of 0.069. A pictorial view of the trip ring on the external tank with the smooth and nipple noses attached is shown in Figures 3f and g, respectively.

CONFIGURATIONS INVESTIGATED (Continued)

The model configurations tested consisted of the external tank alone with either the smooth nose, Figure 3b, or the nipple nose, Figure 3c, installed and all protuberances removed and the integrated model with the nipple nose installed on the external tank, Figure 3a. No data were recorded for the orbiter model during this test.

Model components were denoted as follows:

NOTATION ON TABLE II AND IN DATA	MODEL COMPONENT DESIGNATION USED IN TABLE III	DESCRIPTION
Smooth Nose ET Alone	T_{30}	Tank alone with smooth nose
Nipple Nose ET Alone	T_{28}	Tank alone with nipple nose
OTS(1)	B_{62} C_{12} E_{52} F_{10} M_{16} R_{19} S_{22} T_{28} V_8 W_{127}	Mated vehicle with 0.020 in. dia.trip on orbiter and SRB's, no grit on tank, nipple nose tank
OTS(2)	B_{62} C_{12} E_{52} F_{10} M_{16} R_{19} S_{22} T_{28} V_8 W_{127}	Mated vehicle with no. 36 grit on ET and SRB's, 0.020 in. balls on orbiter, nipple nose tank
OTS(3)	B_{62} C_{12} E_{52} F_{10} M_{16} R_{19} S_{22} T_{28} V_8 W_{127}	Mated vehicle with external stringers on interstage unit between LOX and LH2 lines, nipple nose tank
OTS(4)	B_{62} C_{12} E_{52} F_{10} M_{16} R_{19} S_{22} T_{28} V_8 W_{127}	Mated vehicle with no boundary layer transition device on the ET,0.020 in. balls on the orbiter and SRB,nipple nose tank

CONFIGURATIONS INVESTIGATED (Concluded)

The grit code indicates the type of boundary layer transition strip used as follows:

GRIT	DESCRIPTION
0	no grit or balls on ET, 0.020 in. balls on orbiter and SRB
1	0.020 in. balls on orbiter , ET, and SRB
2	0.031 in. balls on ET, 0.020 in. balls on orbiter and SRB
3	no. 36 grit in 0.25 in. wide strip on orbiter, ET, and SRB
4	0.020 in. balls on orbiter and SRB, no grit on tank
5	no. 36 grit on ET, 0.020 in. balls on SRB and orbiter stringer on interstage unit between LOX and LH2 lines
6	no. 36 grit on ET and SRB, 0.020 in. balls on orbiter

INSTRUMENTATION

Tunnel A stilling chamber pressure was measured with a 15-, 60-, 150-, or 300-psid transducer referenced to a near vacuum. Based on periodic comparisons with secondary standards, the uncertainty (a band-width which includes 95 percent of the residuals) of these transducers was estimated to be within ±0.2 percent of reading or ±0.015 psia, whichever was greater. Stilling chamber temperature was measured with a copper-constantan thermocouple with an uncertainty of ±3°F based on repeat calibrations.

The model temperatures were measured with iron-constantan thermocouples with an estimated uncertainty of ±0.5 percent. Originally there were 837 thermocouples installed on the model. A Beckman® 210 analog-to-digital converter was used in conjunction with a CDC 160-A computer to record the temperature data. Tables IV and V show the locations of the thermocouples utilized during this test.

The standard Tunnel A instrumentation system is designed to record a maximum of 97 thermocouples. To more efficiently accommodate the thermocouples on this test additional equipment was installed. A new terminal board was fabricated that allowed 291 thermocouples to be connected at one time. An existing three-position switch was incorporated that was used to select a group of 97 thermocouples to be recorded during each model injection. All the model thermocouple leads were terminated at quick-disconnect plugs. These plugs were easily interchanged with mating plugs that attached to the terminal board. In this manner, a

pre-selected group of 291 thermocouples could be rapidly connected, and by varying this hookup it was possible to record data from all thermocouples.

TEST FACILITY DESCRIPTION

The AEDC von Karman Facility (VKF) Tunnel A is a continuous, closed-circuit, variable density wind tunnel with an automatically driven flexible-plate-type nozzle and a 40- by 40-in. test section (see Figure 2c). The tunnel can be operated at Mach numbers from 1.5 to 6 at maximum stagnation pressures from 29 to 200 psia, respectively, and stagnation temperatures up to 750°R (M = 6). Minimum operating pressures range from about one-tenth to one-twentieth of the maximum at each Mach number. A description of the tunnel and airflow calibration information may be found in the Test Facilities Handbook (Reference 4).

TEST PROCEDURE

The desired model attitude was established prior to injecting the model into the flow. When the model reached tunnel centerline, it was immediately translated forward into the undisturbed tunnel flow. The thermocouple outputs were scanned approximately 20 times per second starting prior to model injection into the airstream and continuing about 4 sec. after the model reached the tunnel centerline. After each injection, the model was cooled to an isothermal state using high-pressure air.

Data were obtained at angles of attack of 0, ±5, and 10 deg. and yaw angles of 0, 3, and 6 deg. Table I summarizes nominal freestream test conditions.

Uncertainties of the basic tunnel parameters were estimated from repeat calibrations of the P_o and T_o instruments and from the repeatability and uniformity of the tunnel flow during calibrations. The parameters, P_o, T_o, and M_∞ with their uncertainties, were then used to compute the uncertainties in the other parameters dependent on these by means of the Taylor series method of error propagation. Table I summarizes uncertainties of these parameters.

DATA REDUCTION

The reduction of thin skin thermocouple data normally involves only the calorimetric heat balance which in coefficient form is:

$$h(T_o) = wbc_p \frac{dTw/dt}{T_o - Tw} \tag{1}$$

Radiation and conduction losses are neglected in this heat balance, and data reduction simply requires evaluation of dTw/dt from the temperature-time data and determination of model material properties. For the present tests, radiation effects were negligible; however, conduction effects can be significant in several regions of the models. To permit identification of these regions, and to improve evaluation of the data, the following procedure was used.

Separation of variables and integration of Eq. (1) assuming constant w, b, c_p, and T_o yields:

$$\frac{h(T_o)}{w\ b\ c_p}(t - t_i) = \ln\left[\frac{T_o - Tw_i}{T_o - Tw}\right] \tag{2}$$

Differentiation of Eq. (2) with respect to time gives:

$$\frac{h(T_o)}{w\ b\ c_p} = \frac{d}{dt}\ \ln\left[\frac{T_o - Tw_i}{T_o - Tw}\right] \tag{3}$$

Since the left side of Eq. (3) is a constant, plotting versus time will give a straight line if conduction is negligible. Thus, deviation from a straight line can be interpreted as a conduction effect.

The data were evaluated in this manner, and generally a linear portion of the curve was used for all thermocouples. A linear least-squares curve fit of $\ln[(T_o - Tw_i)/(T_o - Tw)]$ versus time was applied to the data.

The value of the initial slope is high when the model is located on the tunnel centerline in the rear test section. As the model is translated forward out of this region into the undisturbed tunnel flow a new linear slope is established that is the desired value of $d/dt\ ln[(T_o - Tw_1)/(T_o - Tw)]$. Generally, for all thermocouples with a value of X_T/L_T less than or equal to 0.05 the curve fit was started at the time the model reached the tunnel centerline. The curve fit for thermocouples with a value of X_T/L_T greater than 0.05 and less than or equal to 0.1 started 1.0 sec. after the model reached centerline. The curve fit for the remaining thermocouples started 2.0 sec. after centerline to ensure that the model was clear of any disturbance in the aft part of the test section. The curve fit extended for a time span, which was a function of the heating rate, as shown below:

Range	Number of Points
$dTw/dt > 32$	5
$16 < dTw/dt \leq 32$	7
$8 < dTw/dt \leq 16$	9
$4 < dTw/dt \leq 8$	13
$2 < dTw/dt \leq 4$	17
$1 < dTw/dt \leq 2$	25
$dTw/dt < 1$	41

The above time spans were adequate to keep the evaluation of the right side of Eq. (3) within the linear region. The linearity of the fit was substantiated by visual inspection of the cases in question.

DATA REDUCTION (Continued)

Strictly speaking, the value of C_p for the material was not constant, as assumed, and the following relation:

$$C_p = 0.0797 + (5.556 \times 10^{-5})T, \text{ (17-4 PH stainless steel)} \quad (4)$$

was used with the value of Tw at the midpoint of the curve fit. The maximum variation of C_p over the curve fit was less than 1.2 percent. The value of density used for 17-4 PH stainless steel was

$$w = 480.0 \text{ lbm/ft}^3$$

The maximum available tunnel stagnation temperature for each Mach number tested is listed in Table I. With these relatively low stagnation temperatures, the difference between the model wall temperature and recovery temperature was generally small in regions of peak heating. This small temperature difference causes the calculation of the heat-transfer coefficient to be very sensitive to deviations from the actual adiabatic wall temperature. Two values of the heat-transfer coefficient have been calculated based on an assumed constant recovery temperature, namely $h(T_o)$ and $h(0.95T_o)$. To account for changes in the recovery temperature a third value of the heat-transfer coefficient has been tabulated based on an analytical temperature ratio, $R = \frac{TAW}{T_o}$.

The analytical method for determining R was developed by Rockwell International and has been used to calculate $h(RT_o)$. In this method, the following relationships were assumed:

$$R = \frac{TAW}{T_o} \quad (5)$$

and

$$TAW = T_e \left(1 + \frac{\gamma - }{2} \; r \; M_e^2\right) \tag{6}$$

$$r = 0.898 \text{ for turbulent flow}$$

with r being the recovery factor and the subscript e identifying local properties at the boundary-layer edge. From these relationships, the temperature ratio can be defined as

$$R = \frac{1 + 0.2 \; r \; M_e^2}{1 + 0.2 \; M_e^2} \tag{7}$$

which is a function of the recovery factor and the local Mach number. The local Mach number can be written

$$M_e = M_e \; (M_\infty , \; \delta) \tag{8}$$

where ∞ identifies the freestream property and δ is the local surface angle of attack. Standard matrix techniques (see Reference 5) were used to derive the following relationship for δ.

$$\delta = \arcsin (\sin \theta \cos \alpha + \cos \theta \cos \phi \sin \alpha)$$

where

α = alpha-sector, deg.

ϕ = roll model + phi, deg.

θ = local model deflection angle, deg.

The edge conditions were computed from M_∞ and δ using the tangent cone flow theory. The following relationship was used to calculate the temperature ratio:

$$R(M_\infty , \; \delta) = a_1 \; (M_\infty) + a_2(M_\infty) . \; (\sin \; \delta)^{a_3(M_\infty)} \tag{9}$$

The values of the constants used for this test are:

M_∞	a_1	a_2	a_3
2.5	0.943	0.1004	2.26
3.5	0.9278	0.1004	2.065
4.5	0.9183	0.1004	1.870
5.5	0.913	0.1004	1.695

The method used to calculate the analytical temperature ratio, R, has been applied to all of the tabulated data. The method represents a simplified approach to a more realistic evaluation of TAW. However, in regions of separated flow or complex interaction, the values calculated for R may no longer apply and should be used with extreme care.

Data obtained using the Rockwell analytical method for determining R were used to calculate interference to undisturbed ratios of thin film coefficient as follows:

$$\frac{h_i}{h_u} = \frac{\left[\begin{array}{l}\text{h calculated at a given thermocouple location on the} \\ \text{tank in the mated configuration during a test run at} \\ \text{a given } \alpha,\ \beta, \text{ and } M_\infty\end{array}\right]}{\left[\begin{array}{l}\text{h calculated at the same thermocouple location on the} \\ \text{isolated tank during a test run at the same } \alpha,\ \beta, \\ \text{and } M_\infty \text{ for windward surfaces and at } \alpha = 0,\ \beta = 0 \\ \text{and matching } M_\infty \text{ for leeward surfaces}\end{array}\right]}$$

These data are presented in plotted format in the Data Figures. The datasets plotted were modified to rotate all phi's by 180°. Thus, the top centerline of the external tank is at a phi of 180°. The basic data presented in the Appendix has phi of 0° at the top centerline of the external tank.

DATA REDUCTION (Concluded)

Heat transfer coefficient data was recorded for the external tank and SRB only. The thermocouple locations used during this test are given in table IV.

Estimated uncertainties for the individual terms in Eq. (2) were used in the Taylor series method of error propagation to obtain uncertainty in values of heat-transfer coefficient as given below:

$h(T_o)$	Uncertainty, percent
10^{-4}	12
10^{-3}	11
10^{-2}	9.5

REFERENCES

1. K. W. Nutt and W. R. Martindale, "Heat Transfer Tests of a 0.0175-Scale Model of the Space Shuttle at Mach Numbers of 2.5, 3.5, 4.5, and 5.5." AEDC-TR-75-153, June, 1976.

2. "NASA/Rockwell International IH41 Heating Test," project V41A-A4A preliminary results distributed by AEDC (no document number, publication date or authors given).

3. J. W. Cummings, "Pretest Information For Testing the 0.0175-Scale Thin Skin Thermocouple Model 60-OTS in the AEDC Supersonic Tunnel 'A' Test IH41," SD75-SH-0051, February 10, 1975.

4. Test Facilities Handbook (Ninth Edition). "von Karman Gas Dynamics Facility, Vol. 3," Arnold Engineering Development Center, July, 1971.

5. L. L. Trimmer and E. L. Clark, "Transformation of Axes Systems by Matrix Methods and Application to Wind Tunnel Data Reduction." AEDC-TDR-63-224, October, 1963.

TABLE I.

TEST: IH41 & IH41A

DATE: May, 1975

TEST CONDITIONS

NOMINAL CONDITIONS				
MACH NUMBER	STAGNATION PRESSURE (PSIA)	STAGNATION TEMPERATURE °R	h_{REF}, (BTU/SEC-FT^2-°R)	UNIT REYNOLDS NUMBER (MILLION PER FOOT)
2.5	.32	660	0.062	5.0
3.5	57	680	0.055	5.0
4.5	95	665	0.047	5.0
5.5	178	740	0.045	5.0

Approximate uncertainties in tunnel flow parameters are shown as follows:

M_∞	UNCERTAINTY (±), PERCENT			
	M_∞	P_o	T_o	Re_∞
2.5	0.8	0.2	0.5	1.3
3.5	0.5	0.2	0.5	1.3
4.5	0.4	0.2	0.5	1.3
5.5	0.3	0.2	0.5	1.3

COMMENTS: Thin skin model instrumented with 837 iron constantan thermocouples. See Instrumentation, Test Procedure, and Data Reduction for a discussion of uncertainties.

TABLE II.

TEST: IH-41 V41A-A4A — DATA SET/RUN NUMBER COLLATION SUMMARY — DATE: 5/27/75

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES GRIT	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 3.51	4.52	5.5	TEST RUN NUMBERS
RV7F01	ET ALONE (SMOOTH NOSE)	0	0	1				1, 2, 3	
02		5	0	1				4, 5, 6	
03		5	-3	1				7, 8, 9	
04		0	0	2				13, 11, 12	
05		5	-6	2				14, 15, 16	
06		0	0	3			46, 47	17, 18, 19, 39	
07		5	0	3				40	
08		5	-3	3				31, 41	
09		5	-6	3				32, 33, 34, 42	
10		10	0	3				26, 27, 28, 45	
11		10	-3	3				23, 24, 25, 44	
12		10	-6	3				20, 21, 22, 43	
13		0	0	0				35, 36, 37, 38	

H/HREF

MACH ALPHA 1

IDVAR (1) IDVAR (2) NDV

TYPE OF DATA: GRIT CODE: SEE TEXT

COEFFICIENT SCHEDULES

TABLE II. (Continued)

TEST: IH41 V41A-A4A — DATA SET/RUN NUMBER COLLATION SUMMARY — DATE: 5/27/75

DATA SET IDENTIFIER	CONFIGURATION	SCHD. PARAMETERS/VALUES α	β	GRIT	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 2.5	3.51	4.52	5.5
RV7F14	ET ALONE (NIPPLE NOSE)	0	0	3	298,299,300	98,99,100,280	81,82,83,261	48,49,50,251
15		5	0	3	301,302,303	104,105,106,281	84,85,86,262	51,52,53,252
16		5	-3	3	304,305,306	107,108,109,282	268,269,270,263	54,55,56,253
17		5	-6	3	307,308,309	287,288,289,283	87,88,89,264	57,58,59,254
18		10	0	3	310,311,312	101,102,103,284	93,94,95,265	66,67,68,260
19		10	-3	3	313,314,315	290,291,242,285	271,272,273,266	63,64,65,257
20		10	-6	3	316,317,318	293,244,245,286	90,91,92,267	60,61,62,258
21		0	0	0		276,277,279,278	75,76,77,274	72,73,74,249
22		5	0	0			78,79,80,275	69,70,71,250
RV7C23	ΦTS(1) SRB DATA	0	0	4		201,202	197,198	154,155

TEST RUN NUMBERS

H/HREF

TYPE OF DATA: GRIT CODE; SEE TEXT — COEFFICIENT SCHEDULES

MACH — IDVAR (1) | ALPHA — IDVAR (2) | 1 — NDV

TABLE II. (Continued)

TEST: IH-41 V41A-A4A — DATA SET/RUN NUMBER COLLATION SUMMARY — DATE: 5/27/75

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES GRIT	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 2.5	3.51	4.52	5.5
RV7F23	ΦTS(1) ET DATA	0	0	4		203, 204, 205	156, 157, 158, 186	124, 125, 126, 114
24		-5	0	4			165, 166, 167, 190	133, 134, 135, 115
25		-5	-3	4			183, 184, 185, 191	151, 152, 153, 116
26		-5	-2	4			168, 169, 170, 192	136, 137, 138, 117
27		5	0	4			159, 160, 161, 187	127, 128, 129, 120
28		5	-3	4			180, 181, 182, 188	148, 149, 150, 119
29		5	-6	4			162, 163, 164, 189	130, 131, 132, 118
30		10	0	4			171, 172, 173, 193	139, 140, 141, 121
31		10	-3	4			174, 175, 176, 194	142, 143, 144, 122
32		10	-6	4			177, 178, 179, 195	145, 146, 147, 123
33	ΦTS(3) ET DATA	0	0	5				110, 111, 112, 113
34		0	0	5				206, 207, 208, 209
35	ΦTS(4) ET DATA	0	0	0		220, 221, 222, 219	214, 215, 216, 217	211, 212, 213, 210
36	ΦTS(2) ET DATA	-5	0	6		223, 224, 225		
37		-5	-3	6		226, 228, 229		
38		-5	-6	6		230, 231, 232		
39		5	0	6		234, 235, 236		
40		5	-3	6		237, 238, 239		

TEST RUN NUMBERS

H/HREF

TYPE OF DATA — GRIT CODE: SEE TEXT — COEFFICIENT SCHEDULES — IDVAR (1): MACH — IDVAR (2): ALPHA — NDV

TABLE II. (Concluded)

TEST: I4-41 V41A-A4A — DATA SET/RUN NUMBER COLLATION SUMMARY — DATE: 5/27/75

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES				NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 3.51	4.52	5.5	TEST RUN NUMBERS
RV7F41	ΦTS(2) ET DATA	5	-6	6					240, 241, 242			
42		10	0	6					243, 244, 245			
43		10	-3	6					246, 247, 248			

H/HREF | MACH | ALPHA | 1

TYPE OF DATA: GRIT CODE: SEE TEXT — COEFFICIENT SCHEDULES — IDVAR (1) — IDVAR (2) — NDV

TABLE III. MODEL DIMENSIONAL DATA

MODEL COMPONENT: BODY - B_{62}

GENERAL DESCRIPTION: Configuration 140C orbiter fuselage, MCR 200-R4. Similar to 140A/B fuselage except aft body revised and improved midbody-wing-boot fairing, X_o = 940 to X_o = 1040.

MODEL SCALE: 0.0175

DRAWING NUMBER: VL70-000140C, -000202C, -000205A, VL70-000200B, -000203

DIMENSIONS:	FULL SCALE	MODEL SCALE
Length (IML: Fwd Sta X_o = 238), in.	1290.3	22.58
Length (OML: Fwd Sta X_o = 235), in.	1293.3	22.63
Max Width (At X_o = 1528.3), in.	264.0	4.62
Max Depth (At X_o = 1464), in.	250.0	4.38
Fineness Ratio	4.899	4.899
Area, Ft^2		
Max. Cross-Sectional	340.885	0.104

TABLE III. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: CANOPY - C_{12}

GENERAL DESCRIPTION: Configuration 140C orbiter canopy. Vehicle cabin No. 31 updated to MCR 200-R4. Used with fuselage B_{62}.

MODEL SCALE: 0.0175

DRAWING NUMBER: VL70-000140C, -000202B, -000204

DIMENSIONS:	FULL SCALE	MODEL SCALE
Length (X_o = 434.643 to 578), in.	143.357	2.508
Max Width (At X_o = 513.127), in.	152.412	2.667
Max Depth (Z_o = 501 to 449.39), in.	51.61	0.903

TABLE III. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: ELEVON - E_{52}

GENERAL DESCRIPTION: Elevon for configuration 140C. Hingeline at X_o = 1387, elevon split line X_w = 312.5, 6.0", beveled edges, and centerbodies.

MODEL SCALE: 0.0175

DRAWING NUMBER: VL70-000140C, -006089, -006092

DIMENSIONS:	FULL SCALE	MODEL SCALE
Area - Ft^2	210.0	0.064
Span (equivalent), in.	349.2	6.111
Inb'd equivalent chord, in.	118.0	2.065
Outb'd equivalent chord	55.19	0.966
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	0.2096	0.2096
At Outb'd equiv. chord	0.4004	0.4004
Sweep Back Angles, degrees		
Leading Edge	0.0	0.0
Trailing Edge	- 10.056	- 10.056
Hingeline	0.0	0.0
Area Moment (Product of area & $\bar{c}$), Ft^3	1587.25	0.008
Mean Aerodynamic Chord., in.	90.7	1.587
Hingeline dihedral (origin at Z_o = 261.3509), deg.	5.229	5.229

TABLE III. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: BODY FLAP - F_{10}

GENERAL DESCRIPTION: Configuration 140C body flap. Hingeline located at $X_o = 1532$, $Z_o = 287$.

MODEL SCALE: 0.0175

DRAWING NUMBER: VL70-0001400, -355114

DIMENSIONS:	FULL SCALE	MODEL SCALE
Length (X_o = 1525.5 to X_o = 1613), in.	87.50	1.531
Max Width (At L.E., X_o = 1525.5), in.	256.00	4.480
Max Depth (X_o = 1532), in.	19.798	0.346
Fineness Ratio		
Area - Ft^2		
Max. Cross-Sectional (At H.L.)	35.196	0.011
Planform	135.00	0.041
Wetted		
Base (X_o = 1613)	4.89	0.0015

TABLE III. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: OMS POD - M_{16}

GENERAL DESCRIPTION: Configuration 140C orbiter OMS pod - short pod.

MODEL SCALE: 0.0175

DRAWING NUMBER: VL70-008401, -008410

DIMENSIONS:	FULL SCALE	MODEL SCALE
Length (OMS Fwd Sta X_o = 1310.5), in.	258.50	4.524
Max Width (At X_o = 1511), in.	136.8	2.394
Max Depth (At X_o = 1511), in.	74.70	1.307
Fineness Ratio	2.484	2.484
Area - Ft^2		
Max. Cross-Sectional	58.864	0.018

TABLE III. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: RUDDER - R_{19}

GENERAL DESCRIPTION: Configuration 140C orbiter rudder used on center-line vertical tail V_8. 30 deg. bevel and 0.5" gaps between rudder panels are unsealed.

MODEL SCALE: 0.0175

DRAWING NUMBER: MCR Rev. 7

DIMENSIONS:	**FULL SCALE**	**MODEL SCALE**
Area, Ft^2	100.15	0.031
Span (equivalent), in.	201.0	3.517
Inb'd equivalent chord, in.	91.585	1.603
Outb'd equivalent chord, in.	50.833	0.900
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	0.400	0.400
At Outb'd equiv. chord	0.400	0.400
Sweep Back Angles, degrees		
Leading Edge	34.83	34.83
Trailing Edge	26.25	26.25
Hingeline	34.83	34.83
Area Moment (Product of area & $\bar{c}$), Ft^3	610.92	0.003
Mean Aerodynamic Chord, in.	73.2	1.281

TABLE III. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: BOOSTER SOLID ROCKET MOTOR - S_{22}

GENERAL DESCRIPTION: The BSRM is an external propulsion system which is jettisoned and recoverable after burnout. The BSRM's can be refurbished and reused after recovery.

MODEL SCALE: 0.0175

DRAWING NUMBER: VC77-000002C, VC70-000002A, VC72-000002C

DIMENSIONS:	FULL SCALE	MODEL SCALE
Length	1789.60	31.318
Max Width tank diameter, in.	146.00	2.555
Max Depth AFT shroud dia., in.	208.20	3.643
Finen s Ratio	8.596	8.596
Area, Ft^2		
Max. Cross-Sectional	236.423	.0724
Planform		
Wetted		
Base		
WP of BRSM centerline	400.0	
FS of BSRM nose	743.0	
BP of BSRM centerline	250.5	

TABLE III. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: EXTERNAL TANK - T_{28}

GENERAL DESCRIPTION: Nipple nose external tank

MODEL SCALE: 0.0175

DRAWING NUMBER: VL72-0001430, VL78-000063

DIMENSIONS:	FULL SCALE	MODEL SCALE
Length	1844.275	32.275
Max Width	331.00	5.792
Fineness Ratio	5.572	5.572
Max. Cross-Sectional Area, ft^2	594.678	.1821

TABLE III. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: EXTERNAL TANK - T_{30}

GENERAL DESCRIPTION: Ogive nose with no nipple (smooth nose) external tank

MODEL SCALE: 0.0175

DRAWING NUMBER: VL72-000143D, VL78-000063

DIMENSIONS:	FULL SCALE	MODEL SCALE
Length	1844.275	32.275
Max Width	331.00	5.792
Fineness Ratio	5.572	5.572
Max. Cross-Sectional Area, ft^2	594.678	0.1821

TABLE III. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: VERTICAL - V_8

GENERAL DESCRIPTION: Configuration 140C orbiter vertical tail (identical to configuration 140A/B vertical tail).

MODEL SCALE: 0.0175

DRAWING NUMBER: VL70-000140C, -000146B

DIMENSIONS:	**FULL SCALE**	**MODEL SCALE**
TOTAL DATA		
Area (Theo) - Ft^2 Planform	413.253	0.127
Span (Theo) - In.	315.72	5.350
Aspect Ratio	1.675	1.675
Rate of Taper	0.507	0.507
Taper Ratio	0.404	0.404
Sweep Back Angles, Degrees		
Leading Edge	45.000	45.000
Trailing Edge	26.25	26.25
0.25 Element Line	41.13	41.13
Chords:		
Root (Theo) WP	268.50	4.699
Tip (Theo) WP	108.47	1.898
MAC	199.81	3.497
Fus. Sta. of .25 MAC	1463.35	25.609
W.P. of .25 MAC	635.52	11.122
B.L. of .25 MAC	0.0	0.0
Airfoil Section		
Leading Wedge Angle, deg.	10.00	10.00
Trailing Wedge Angle, deg.	14.92	14.92
Leading Edge Radius	2.00	2.00
Void Area	13.17	0.0040
Blanketed Area	0.0	0.0

TABLE III. MODEL DIMENSIONAL DATA (Concluded)

MODEL COMPONENT: WING - W_{127}

GENERAL DESCRIPTION: Configuration 140C orbiter wing, MCR 200-R4. Similar to 140A/B wing W_{116} but with refinements; improved wing-boot-midbody fairing (X_o = 940 to X_o = 1040). Elevon split line relocated from Y_o = 281 to Y_o = 312.5).

MODEL SCALE: 0.0175 DRAWING NUMBER: VL70-000140C, -000200B

DIMENSIONS:	FULL SCALE	MODEL SCALE
TOTAL DATA		
Area (Theo.), Ft^2	2690.00	0.824
Planform	936.68	16.392
Span (Theo), In.	2.265	2.265
Aspect Ratio	1.177	1.177
Rate of Taper	0.200	0.200
Taper Ratio	3.500	3.500
Dihedral Angle, degrees	0.500	0.500
Incidence Angle, degrees	3.000	3.000
Aerodynamic Twist, degrees		
Sweep Back Angles, degrees		
Leading Edge	45.000	45.000
Trailing Edge	- 10.065	- 10.065
0.25 Element Line	35.209	35.209
Chords:		
Root (Theo) B.P.0.0.	689.24	12.062
Tip, (Theo) B.P.	137.85	2.412
MAC	474.81	8.309
Fus. Sta. of .25 MAC	1136.83	19.895
W.P. of .25 MAC	290.58	5.085
B.L. of .25 MAC	182.18	3.187
EXPOSED DATA		
Area (Theo), Ft^2	1751.50	0.536
Span, (Theo), In. BP108	720.68	12.612
Aspect Ratio	2.059	2.059
Taper Ratio	0.245	0.245
Chords		
Root BP108	562.09	9.837
Tip 1.00 b/2	137.85	2.412
MAC	392.83	6.875
Fus. Sta. of .25 MAC	1185.98	20.755
W.P. of .25 MAC	294.30	5.500
B.L. of .25 MAC	251.77	4.406
Airfoil Section (Rockwell Mod NASA) XXXX-64		
Root b/2 =	0.113	0.113
Tip b/2 =	0.120	0.120
Data for (1) of (2) Sides		
Leading Edge Cuff		
Planform Area, Ft^2	113.18	0.035
Leading Edge Intersects Fus M.L.@ Sta	500.00	8.750
Leading Edge Intersects Wing @ Sta	1024.0	17.920

TABLE IV. EXTERNAL TANK THERMOCOUPLE LOCATIONS

T/C NO.	X/L	MODEL SCALE $X_{FROM\ NOSE}$ (INCHES)	ϕ (DEGREES)	SKIN THICKNESS (INCHES)
600	.04	1.2918	0.0	.0346
601	.05	1.6147		.0345
602	.06	1.9377		.0334
603	.07	2.2606		.0326
604	.08	2.5836		.0342
605	.10	3.2295		.0310
606	.15	4.8442		.0306
607	.20	6.459		.0341
608	.21	6.7819		.0322
609	.22	7.104		.0299
610	.30	9.6885		.0325
611	.35	11.3032		.0334
612	.36	11.6262		.0331
613	.37	11.9491		.0331
614	.375	12.1106		.0331
615	.38	12.2721		.0331
616	.385	12.4335		.0331
617	.39	12.595		.0332
618	.395	12.7565		.033
619	.40	12.918		.0332
620	.405	13.0794		.0331
621	.41	13.2409		.0331
622	.415	13.4024		.0332
623	.42	13.5639		.0329
624	.425	13.7253		.0332
625	.43	13.8868		.0331
626	.44	14.2098		.0331
627	.445	14.3712		.0328
628	.45	14.5327		.0328
629	.455	14.6942		.0323
630	.46	14.8557		.0331
631	.47	15.1786		.0331
632	.48	15.5015		.0329
633	.49	15.8245		.0326
634	.50	16.1475		.0318
635	.55	17.7622		.0335
636	.60	19.377		.0345
637	.65	20.9917		.0344
638	.70	22.6065		.0325
639	.75	24.2212		.0345
640	.80	25.836		.0355
641	.85	27.4507		.0352

TABLE IV. EXTERNAL TANK THERMOCOUPLE LOCATIONS
(Continued)

T/C NO.	X/L	MODEL SCALE $X_{FROM\ NOSE}$ (INCHES)	ϕ (DEGREES)	SKIN THICKNESS (INCHES)
642	.86	27.7737	0.0	.0347
643	.87	28.0966	↓	.0345
644	.88	28.4195	↓	.0342
645	.89	28.7425	↓	.0338
646	.90	29.0655	↓	.0331
648	.926	29.9114	↓	.0305
649	.95	30.6802	↓	.0308
650	.35	11.3032	11.25	.0331
651	.36	11.6262	↓	.0330
652	.37	11.9491	↓	.0331
653	.375	12.1106	↓	.0330
654	.38	12.2721	↓	.0330
655	.385	12.4335	↓	.0330
656	.39	12.5950	↓	.0330
657	.395	12.7565	↓	.0330
658	.40	12.918	↓	.0329
659	.405	13.0794	↓	.0329
660	.41	13.2409	↓	.0330
661	.415	13.4024	↓	.0331
662	.42	13.5639	↓	.0330
663	.425	13.7253	↓	.0329
664	.43	13.8868	↓	.0326
665	.44	14.2098	↓	.0328
666	.45	14.5327	↓	.0328
667	.455	14.6942	↓	.0328
668	.46	14.8557	↓	.0327
669	.47	15.1786	↓	.0326
670	.48	15.5015	↓	.0326
671	.49	15.8245	↓	.0327
672	.50	16.1475	↓	.0320
673	.60	19.377	↓	.0347
674	.70	22.6065	↓	.0327
675	.80	25.836	↓	.0360
676	.85	27.4507	↓	.0352
677	.86	27.7737	↓	.0348
678	.87	28.0966	↓	.0345
679	.88	28.4195	↓	.0341
680	.89	28.7425	↓	.0336
681	.90	29.0655	↓	.0330
682	.91	29.3884	↓	.0305
683	.926	29.9114	↓	.0304
684	.95	30.6802	↓	.0308

TABLE IV. EXTERNAL TANK THERMOCOUPLE LOCATIONS
(Continued)

T/C NO.	X/L	MODEL SCALE $X_{FROM\ NOSE}$ (INCHES)	ϕ (DEGREES)	SKIN THICKNESS (INCHES)
685	.33	10.6573	17.0	.0331
686	.34	10.9803		.0331
687	.35	11.3032		.0331
688	.36	11.6262		.0331
689	.37	11.9491		.0331
690	.375	12.1106		.0330
691	.50	16.1475		.0331
692	.60	19.3770		.0345
693	.70	22.6065		.0328
694	.80	25.836		.0354
695	.87	28.0966		.0349
696	.926	29.9114		.0304
697	.015	.4844	29.8	.0324
698	.030	.9688		.0327
699	.05	1.6147		.0350
700	.07	2.2606		.0329
701	.10	3.2295		.0349
702	.15	4.8442		.0311
703	.20	6.459	29.8	.0334
704	.30	9.6885		.0314
705	.35	11.3032		.0325
706	.375	12.1106		.0324
707	.50	16.1475		.0325
708	.60	19.377		.0349
709	.70	22.6065		.0349
710	.80	25.836		.0357
711	.87	28.0966		.0352
712	.926	29.9114		.0306
713	.015	.4844	37.7	.0323
714	.03	.9688		.0327
715	.05	1.6147		.0341
716	.07	2.2606		.0326
717	.10	3.2295		.0343
718	.15	4.8442		.0304
719	.20	6.459		.0330
720	.30	9.6885		.0311
721	.35	11.3032		.0321
722	.375	12.1106		.0321
723	.50	16.1475		.0322
724	.60	19.377		.0348
725	.70	22.6065		.0350
726	.80	25.836		.0354

TABLE IV. EXTERNAL TANK THERMOCOUPLE LOCATIONS
(Continued)

T/C NO.	X/L	MODEL SCALE $X_{FROM\ NOSE}$ (INCHES)	ϕ (DEGREES)	SKIN THICKNESS (INCHES)
727	.87	28.0966	37.7	.0348
728	.926	29.9114	↓	.0306
729	0.0	0.0	180.0	.0321
730	.003	45°	↓	.0324
731	.0103	↓	↓	.0323
732	.015	.4844	↓	.0327
733	.02	.6459	↓	.0324
734	.025	.8073	↓	.0327
735	.03	.9688	↓	.0325
737	.04	1.2918	↓	.0341
738	.045	1.4532	180.0	.0336
739	.06	1.9377	↓	.0331
740	.07	2.2606	↓	.0329
741	.08	2.5836	↓	.0306
742	.10	3.2295	↓	.0333
743	.125	4.0368	↓	.0306
744	.15	4.8442	↓	.0320
745	.175	5.6516	↓	.0296
746	.20	6.459	↓	.0311
747	.215	6.9434	↓	.0321
748	.23	7.4278	↓	.0301
749	.24	7.7508	↓	.0295
750	.25	8.0737	↓	.0275
751	.30	9.6885	↓	.0339
752	.35	11.3032	↓	.0352
753	.40	12.918	↓	.0346
754	.50	16.1475	↓	.0340
755	.60	19.377	↓	.0347
756	.70	22.6065	↓	.0337
757	.80	25.836	↓	.0355
758	.90	29.0655	↓	.0344
759	.22	7.1049	235.0	.0299
760	.25	8.0737	↓	.0284
761	.27	8.7196	↓	.0299
762	.30	9.6885	↓	.0370
763	.32	10.3344	↓	.0376
764	.34	10.9803	↓	.0375
765	.36	11.6262	↓	.0370
766	.38	12.2721	↓	.0366
767	.40	12.918	↓	.0356
768	.23	7.4278	247.5	.0299
769	.25	8.0737	↓	.0286

TABLE IV. EXTERNAL TANK THERMOCOUPLE LOCATIONS
(Continued)

T/C NO.	X/L	MODEL SCALE $X_{FROM\ NOSE}$ (INCHES)	ϕ (DEGREES)	SKIN THICKNESS (INCHES)
770	.27	8.7196	247.5	.0305
771	.29	9.3655	↓	.0359
772	.30	9.6885	247.5	.0364
773	.31	10.0114		.0367
774	.32	10.3344		.0370
775	.325	10.4958		.0369
776	.33	10.6573		.0368
777	.335	10.8188		.0368
778	.34	10.9803		.0368
779	.345	11.1417		.0367
780	.35	11.3032		.0366
781	.355	11.4647		.0365
782	.36	11.6262		.0365
783	.365	11.7876		.0366
784	.37	11.9491		.0364
785	.375	12.1106		.0361
786	.38	12.2721		.0360
787	.39	12.595		.0359
788	.40	12.918		.0356
789	.50	16.1475		.0347
790	.60	19.377		.0329
791	.70	22.6065		.0315
792	.80	25.836		.0354
793	.90	29.0655	↓	.0345
794	.27	8.7196	258.0	.0312
795	.29	9.3655		.0361
796	.30	9.6885		.0367
797	.31	10.0114		.0367
798	.32	10.3344		.0369
799	.325	10.4958		.0368
800	.33	10.6573		.0368
801	.335	10.8188		.0368
802	.34	10.9803		.0368
803	.345	11.1417		.0367
804	.35	11.3032		.0367
805	.355	11.4647		.0367
806	.36	11.6262		.0366
807	.365	11.7876		.0365
808	.37	11.9491		.0364
809	.375	12.1106		.0364
810	.38	12.2721		.0362
811	.39	12.595	↓	.0361

TABLE IV. EXTERNAL TANK THERMOCOUPLE LOCATIONS
(Continued)

T/C NO.	X/L	MODEL SCALE $X_{FROM\ NOSE}$ (INCHES)	ϕ (DEGREES)	SKIN THICKNESS (INCHES)
812	.40	12.918	258.0	.0361
813	.23	7.4278	270.0	.0306
814	.24	7.7508	↓	.0275
815	.25	8.0737		.0282
816	.27	8.7196		.0313
817	.29	9.3655		.0358
818	.30	9.6885		.0364
819	.31	10.0114		.0367
820	.32	10.3344		.0368
821	.325	10.4958		.0369
822	.33	.0.6573		.0368
823	.335	10.8189		.0367
824	.34	10.9803		.0369
825	.345	11.1417		.0368
826	.35	11.3032		.0368
828	.36	11.6262		.0369
829	.365	11.7876		.0368
830	.37	11.9491		.0367
831	.375	12.1106		.0365
832	.38	12.2721		.0365
833	.39	12.595		.0361
834	.40	12.918		.0360
835	.50	16.1475		.0352
836	.60	19.377		.0334
837	.70	22.6065		.0316
838	.80	25.836		.0358
839	.90	29.0655		.0348
840	.23	7.4278	292.5	.0276
841	.25	8.0737	↓	.0287
842	.27	8.7196		.0318
843	.30	9.6885		.0374
844	.33	10.6573		.0369
845	.35	11.3032		.0363
846	.37	11.9491		.0361
847	.40	12.918		.0357
848	.45	14.4327		.0354
849	.50	16.1475		.0346
850	.55	17.7622		.0333
851	.60	19.377		.0332
852	.65	20.9917		.0327
853	.70	22.6065		.0317
854	.75	24.2212	↓	.0343

TABLE IV. EXTERNAL TANK THERMOCOUPLE LOCATIONS
(Continued)

T/C NO.	X/L	MODEL SCALE $X_{FROM\ NOSE}$ (INCHES)	ϕ (DEGREES)	SKIN THICKNESS (INCHES)
855	.80	25.836	292.5	.0342
856	.90	29.0655	↓	.0343
857	.84	27.1278	305.4	.0360
858	.85	27.4507		.0358
859	.86	27.7737		.0355
860	.87	28.0966		.0354
861	.88	28.4195		.0354
862	.89	28.7425		.0352
863	.90	29.0655		.0350
864	.91	29.3884		.0306
865	.926	29.9114		.0307
866	.80	25.8360	309.3	.0354
867	.81	26.1580		.0356
868	.82	26.4819		.0356
869	.83	26.8048		.0355
870	.04	1.2918	315.0	.0346
871	.05	1.6147		.0348
872	.06	1.9377		.0335
873	.07	2.2606		.0327
874	.08	2.5836		.0315
875	.10	3.2295	315.0	.0339
876	.15	4.8442		.0304
877	.20	6.459		.0330
878	.35	11.3032		.0358
879	.40	12.918		.0351
880	.50	16.1475		.0324
881	.55	17.7622		.0334
882	.60	19.377		.0331
883	.65	20.9917		.0326
884	.70	22.6065		.0313
885	.75	24.2212		.0353
886	.80	25.836		.0354
887	.84	27.1278		.0354
888	.85	27.4507		.0351
889	.86	27.7737		.0352
890	.87	28.0966		.0350
891	.88	28.4195		.0348
892	.89	28.7425		.0342
893	.90	29.0655		.0338
894	.91	29.3884		.0305
895	.926	29.9114		.0306
896	.95	30.6802	↓	.0308

TABLE IV. EXTERNAL TANK THERMOCOUPLE LOCATIONS
(Continued)

T/C NO.	X/L	MODEL SCALE $X_{FROM\ NOSE}$ (INCHES)	ϕ (DEGREES)	SKIN THICKNESS (INCHES)
897	.42	13.5639	322.3	.0346
898	.435	14.0483	↓	.0356
899	.45	14.5327	↓	.0340
900	.50	16.1475	↓	.0334
901	.60	19.377	↓	.0335
902	.70	22.6065	↓	.0326
903	.80	25.8360	↓	.0350
904	.87	28.0966	↓	.0352
905	.42	13.5639	330.2	.0345
906	.435	14.0483	↓	.0343
907	.45	14.5327	↓	.0341
908	.50	16.1475	↓	.0311
909	.60	19.377	↓	.0340
910	.70	22.6065	↓	.0330
911	.80	25.836	↓	.0347
912	.87	28.0966	↓	.0348
913	.935	30.1958	↓	.0306
914	.945	30.4187	↓	.0309
915	.04	1.2918	337.5	.0351
916	.05	1.6147	↓	.0345
917	.06	1.9377	↓	.0331
918	.07	2.2606	↓	.0320
919	.08	2.5836	↓	.0326
920	.10	3.2295	↓	.0333
921	.15	4.8442	↓	.0307
922	.20	6.459	↓	.0334
923	.42	13.5939	↓	.0341
924	.435	14.0483	↓	.0340
925	.45	14.5327	↓	.0337
926	.85	27.4507	↓	.0344
927	.86	27.7737	↓	.0343
928	.87	28.0966	↓	.0342
929	.88	28.4195	↓	.0340
930	.89	28.7425	↓	.0338
931	.90	29.0655	↓	.0330
932	.91	29.3884	↓	.0304
933	.926	29.9114	↓	.0305
934	.415	13.4024	343.12	.0343
935	.42	13.5639	↓	.0340
936	.425	13.7253	↓	.0339
937	.43	13.8868	↓	.0339
938	.44	14.2098	↓	.0340

TABLE IV. EXTERNAL TANK THERMOCOUPLE LOCATIONS
(Continued)

T/C NO.	X/L	MODEL SCALE $X_{FROM\ NOSE}$ (INCHES)	ϕ (DEGREES)	SKIN THICKNESS (INCHES)
939	.445	14.3712	343.12	.0335
940	.45	14.5327	↓	.0335
941	.50	16.1475		.0328
942	.60	19.3770		.0345
943	.70	22.6065		.0324
944	.80	25.836		.0341
945	.35	11.3032	348.0	.0351
946	.36	11.6262	↓	.0350
947	.37	11.9491		.0349
948	.375	12.1106		.0349
949	.38	12.2721		.0346
950	.385	12.4335		.0345
951	.39	12.595		.0343
952	.395	12.7565		.0348
953	.40	12.918		.0342
954	.405	13.0794		.0341
955	.41	13.2409		.0341
956	.415	13.4024		.0340
957	.42	13.5639		.0339
958	.425	13.7253		.0339
959	.43	13.8868		.0340
960	.44	14.2098		.0339
961	.445	14.3712		.0339
962	.45	14.5327		.0337
963	.455	14.6942		.0337
964	.46	14.8557		.0335
965	.47	15.1786		.0334
966	.48	15.5015		.0331
967	.49	15.8245		.0331
968	.85	27.4507		.0343
969	.86	27.7737		.0342
970	.87	28.0966		.0341
971	.88	28.4195		.0340
972	.89	28.7425		.0335
973	.90	29.0655		.0327
974	.91	29.3884		.0305
975	.926	29.5114		.0307
976	.95	30.6802		.0309
977	.012		180.0	.0351
978	.015		↓	.0325
979	.018			.0322
980	.024			.0332

TABLE IV. EXTERNAL TANK THERMOCOUPLE LOCATIONS
(Concluded)

T/C NO.	X/L	MODEL SCALE $X_{FROM\ NOSE}$ (INCHES)	ϕ (DEGREES)	SKIN THICKNESS (INCHES)
981	.031		180.0	.0347
982	.020		0.0	.0320
983	.025		↓	.0322
984	.030			.0324
985	.040		270.0	.0342
986	.050			.0344
987	.060			.0338
988	.070			.0331
989	.080			.0314
990	.100			.0341
991	.150			.0303

TABLE V. SOLID ROCKET BOOSTER THERMOCOUPLE LOCATIONS

T/C NO.	X/L	FULL SCALE X_o (INCHES)	MODEL SCALE $X_{FROM\ NOSE}$ (INCHES	ϕ (DEGREES)	SKIN THICKNESS (INCHES)
1000	.115	399.19	6.986	180	.030
1001	.20	545.04	9.538		.030
1002	.225	588.17	10.293		.030
1003	.25	631.30	11.048		.030
1004	.30	717.56	12.557		.030
1005	.40	890.08	15.576		.031
1006	.5	1062.60	18.596		.0304
1007	.55	1148.86	20.105		.0304
1008	.60	1235.12	21.615		.030
1009	.65	1321.38	23.124		.0302
1010	.7	1407.64	24.634		.029
1011	.750	1493.90	26.143		.028
1012	.80	1580.16	27.653		.029
1013	.875	1790.55	29.917		.030
1014	.925	1795.81	31.427		.0299
1015	.939	1899.963	31.849		.0292
1016	.953	1844.58	32.279	175	.0285
1017	.967	1867.89	32.688		.0299
1018	.980	1891.09	33.094		.0301
1019	.994	1914.37	33.502		.0305
1020	.115	399.19	6.986	225	.030
1021	.143	446.70	7.817		.030
1022	.171	495.01	8.663		.030
1023	.2	545.04	9.538		.030
1024	.3	717.56	12.557		.030
1025	.4	890.08	15.576		.031
1026	.5	1062.60	18.596		.0303
1027	.55	1148.86	20.105		.0302
1028	.6	1235.12	21.615		.030
1029	.65	1321.38	23.124		.0302
1030	.7	1407.64	24.634		.0295
1031	.8	1580.16	27.653		.0295
1032	.875	1709.55	29.917		.0294
1033	.925	795.81	31.428		.0299
1034	.953	1844.53	32.279	230	.0295
1035	.967	1867.81	32.688		.0296
1036	.980	1891.09	33.094		.030
1037	.994	1914.37	33.502		.030
1038	0	200.0	3.50	270	.0303

TABLE V. SOLID ROCKET BOOSTER THERMOCOUPLE LOCATIONS
(Continued)

T/C NO.	X/L	FULL SCALE X_o (INCHES)	MODEL SCALE $X_{FROM\ NOSE}$ (INCHES	ϕ (DEGREES)	SKIN THICKNESS (INCHES)
1039	.002	203.89	3.568	270	.0305
1040	.008	213.27	3.732		.030
1041	.05	286.26	5.010		.030
1042	.1	372.52	6.519		.030
1043	.12	407.024	7.123		.030
1044	.127	419.10	7.334		.030
1045	.134	431.178	7.546		.030
1046	.173	498.46	8.723		.030
1047	.180	510.536	8.934		.030
1048	.186	520.887	9.116		.030
1049	.193	532.964	9.327		.030
1050	.2	545.04	9.538		.030
1051	.25	631.30	11.048		.030
1052	.3	717.56	12.557		.030
1053	.4	890.08	15.576		.0314
1054	.5	1062.6	18.596		.0305
1055	.6	1235.12	21.615		.0302
1056	.7	1407.64	24.634		.0302
1057	.75	1493.9	26.143		.0285
1058	.8	1580.16	27.653		.030
1059	.875	1709.55	29.197		.030
1060	.925	1795.81	31.427		.0301
1061	.953	1844.53	32.279		.028
1062	.967	1867.81	32.688		.028
1063	.980	1891.09	33.094		.0287
1064	.994	1914.37	33.502		.029
1065	.115	399.19	6.986	315	.030
1066	.143	446.7	7.817		.030
1067	.171	495.01	8.663		.030
1068	.2	545.04	9.538		.030
1069	.3	717.56	12.557		.030
1070	.5	1062.6	18.595		.0305
1071	.6	1235.12	21.615		.030
1072	.7	1407.64	24.634		.0295
1073	.8	1580.16	27.653		.0295
1074	.953	1844.53	32.279		.029
1075	.967	1867.81	32.688		.0295
1076	.980	1891.09	33.094		.0298
1077	.994	1914.37	33.502		.0295

TABLE V. SOLID ROCKET BOOSTER THERMOCOUPLE LOCATIONS
(Continued)

T/C NO.	X/L	FULL SCALE X_o (INCHES)	MODEL SCALE $X_{FROM\ NOSE}$ (INCHES	ϕ (DEGREES)	SKIN THICKNESS (INCHES)
1078	.2	545.04	9.538	0	.030
1079	.4	890.08	15.576		.0311
1080	.6	1235.12	21.615		.030
1081	.7	1407.64	24.634		.0292
1082	.75	1493.9	26.143		.028
1083	.8	1580.16	27.653		.0295
1084	.953	1844.53	32.279		.0291
1085	.967	1867.81	32.688		.0291
1086	.98	1891.09	33.094		.0285
1087	.994	1914.37	33.502		.030
1088	.115	399.19	6.986	45	.030
1089	.146	451.88	7.908		.030
1090	.177	505.36	8.844		.030
1091	.6	1235.12	21.615		.030
1092	.7	1407.64	24.634		.0297
1093	.8	1580.16	27.652		.030
1094	.115	399.19	6.986	76	.030
1095	.128	420.83	7.364		.030
1096	.146	451.88	7.098		.030
1097	.2	545.04	9.538		.030
1098	.4	890.08	15.576		.0315
1099	.6	1235.12	21.615	76	.0302
1100	.8	1580.16	27.653		.030
1101	.875	1709.55	29.917		.030
1102	.05	286.26	5.01		.030
1103	.1	372.52	6.519		.030
1104	.115	399.19	6.986		.030
1105	.146	451.88	7.908		.030
1110	.953	1844.53	32.279		.030
1111	.967	1867.81	32.688		.030
1112	.980	1891.09	33.094		.030
1113	.994	1914.37	33.502		.030
1114	.115	399.19	6.986	104	.030
1115	.128	420.83	7.364		.030
1116	.146	451.88	7.908		.030
1117	.2	545.04	9.538		.030
1118	.4	590.08	15.576		.0314
1119	.6	1235.12	21.615		.0302
1120	.8	1580.16	27.653		.0295

TABLE V. SOLID ROCKET BOOSTER THERMOCOUPLE LOCATIONS
(Continued)

T/C NO.	X/L	FULL SCALE X_o (INCHES)	MODEL SCALE $X_{FROM\ NOSE}$ (INCHES	ϕ (DEGREES)	SKIN THICKNESS (INCHES)
1121	.875	1709.55	29.917	104	.0299
1122	.115	399.19	6.986	135	.030
1123	.146	451.88	7.908		.030
1124	.177	505.36	8.844		.030
1125	.2	545.04	9.538		.030
1126	.3	717.56	12.557		.030
1127	.5	1062.60	18.595		.0305
1128	.6	1235.12	21.615		.0302
1129	.7	1407.64	24.634		.0298
1130	.8	1580.16	27.653		.0295
1131	.875	1709.55	29.917		.030
1132	.925	1795.81	31.427		.030
1133	.953	1844.53	32.279		.0295
1134	.967	1867.81	32.688		.0295
1135	.980	1891.09	33.094		.030
1136	.994	1914.37	33.502		.0299
1200	.043	274.8	4.809	155	.030
1201	.05	286.23	5.009		.030
1202	.057	297.65	5.209		.030
1203	.063	309.09	5.409		.030
1204	.090	355.26	6.217		.030
1205	.10	372.51	6.519		.030
1206	.05	286.23	5.009	185	.0298
1207	.09	355.26	6.217		.030
1208	.100	372.51	6.519		.030
1209	.05	286.23	5.009	215	.0298
1210	.09	355.26	6.217		.030
1211	.10	372.51	6.519		.030
1212	.043	274.8	4.809	225	.030
1213	.05	286.23	5.009		.030
1214	.057	297.66	5.209		.030
1215	.063	309.09	5.409		.030
1216	.09	355.26	6.217		.030
1217	.10	372.51	6.519		.030
1220	.965	1644.82	29.134	184.25	.0295
1221	.975	1682.07	29.436		.0296
1222	.985	1699.32	29.738		.0299
1223	.995	1716.57	30.040		.030
1224	.965	1664.82	29.134	200	.030

TABLE V. SOLID ROCKET BOOSTER THERMOCOUPLE LOCATIONS
(Concluded)

T/C NO.	X/L	FULL SCALE X_o (INCHES)	MODEL SCALE $X_{FROM\ NOSE}$ (INCHES	ϕ (DEGREES)	SKIN THICKNESS (INCHES)
1225	.975	1682.07	29.436	200	.030
1226	.985	1699.32	29.738	↓	.0298
1227	.995	1716.57	30.040	↓	.0299
1228	.965	1664.82	29.134	220	.0298
1229	.975	1682.07	29.436	↓	.0298
1230	.985	1699.32	29.738	↓	.0297
1231	.995	1716.57	30.04	↓	.030

Notes:

1. Positive directions of force coefficients, moment coefficients, and angles are indicated by arrows
2. For clarity, origins of wind and stability axes have been displaced from the center of gravity

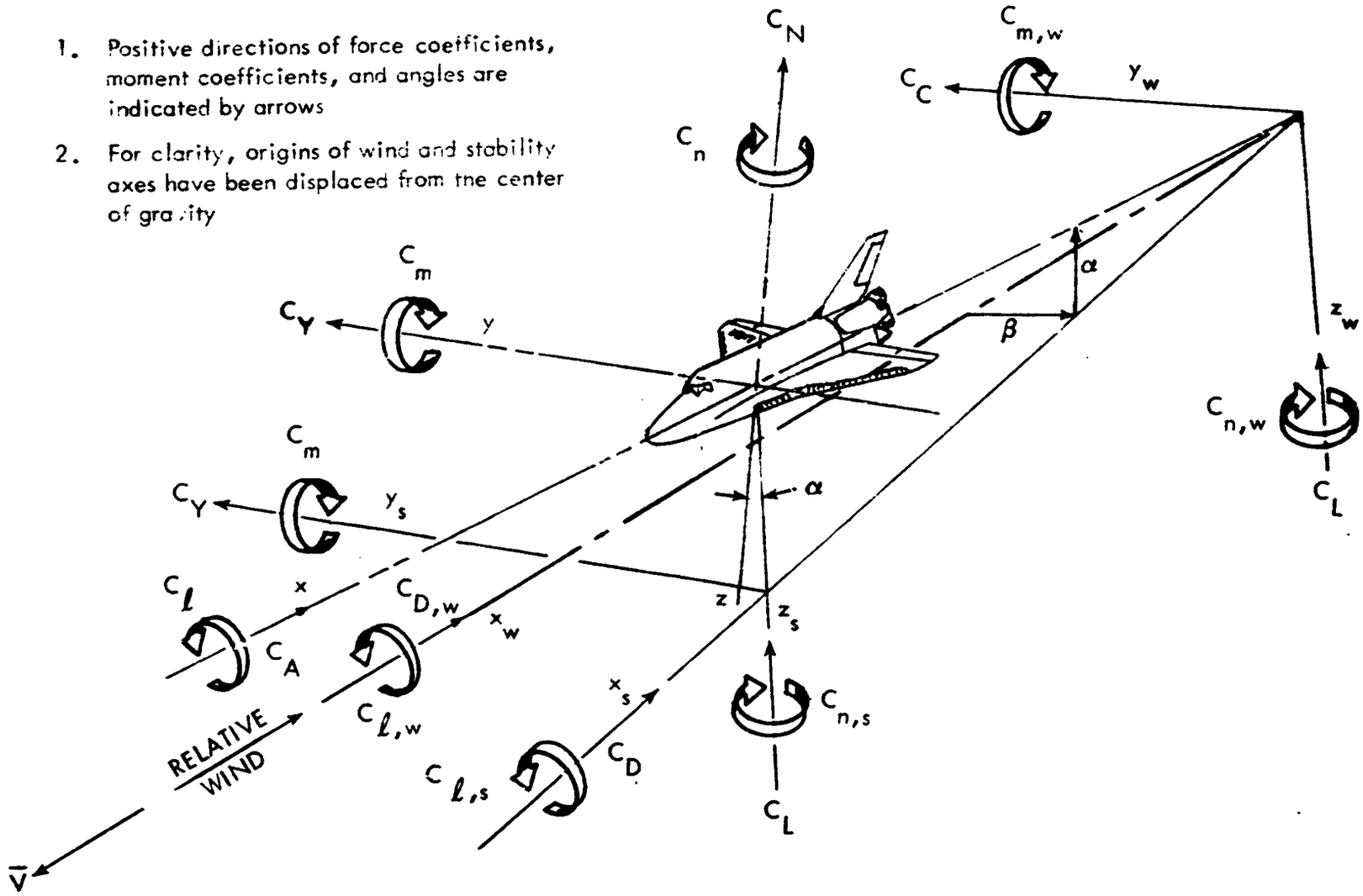
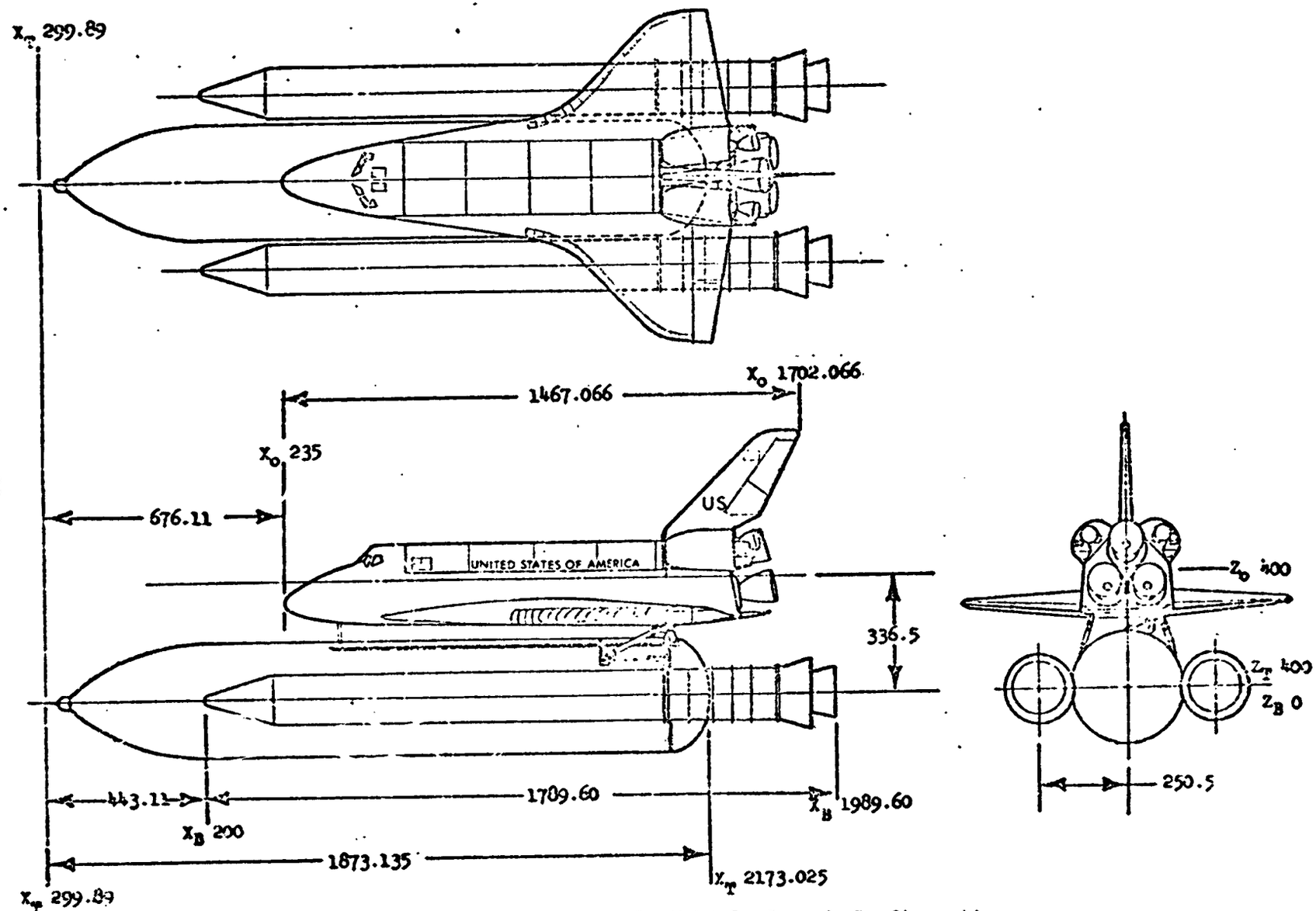
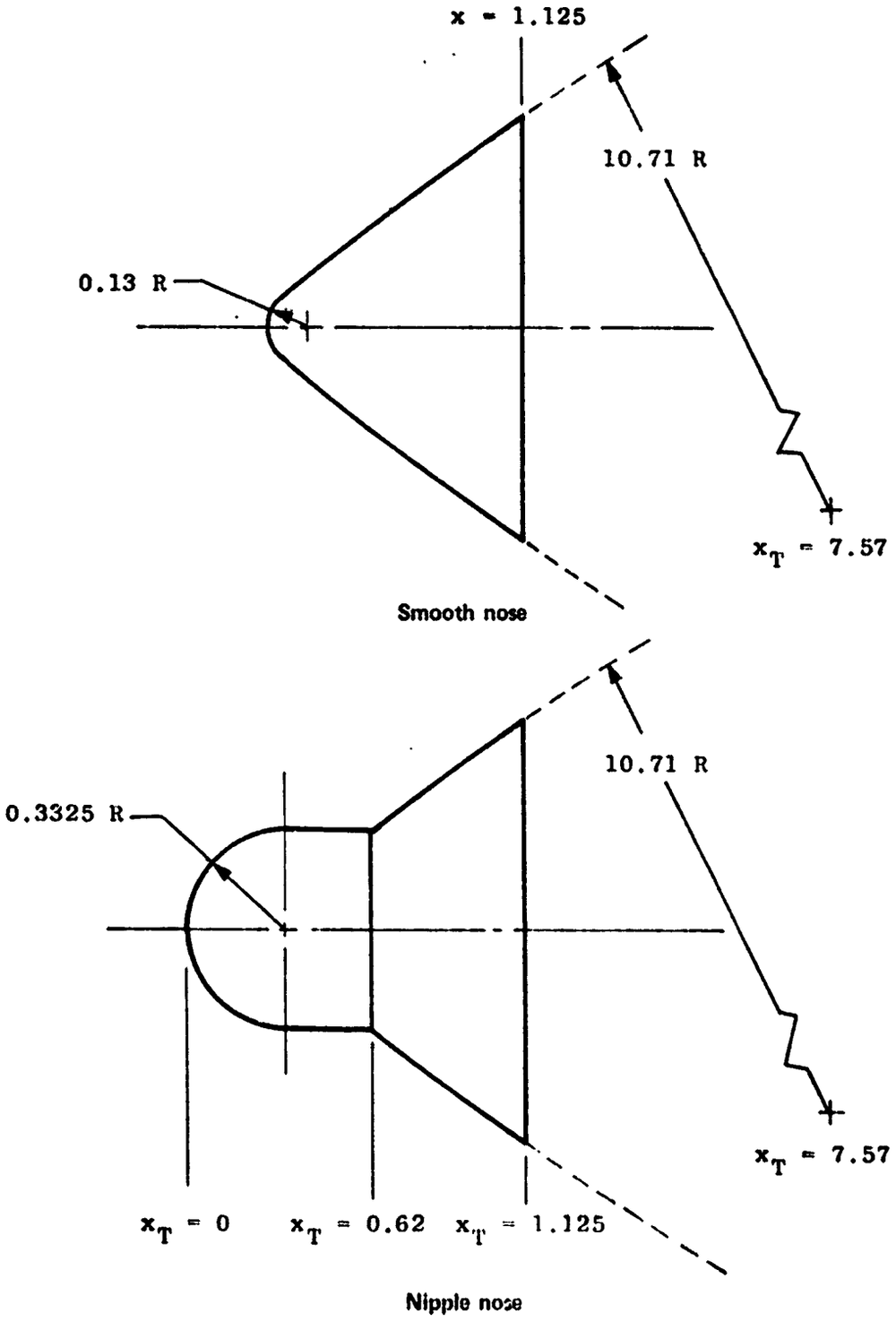


Figure 1. Axis systems.

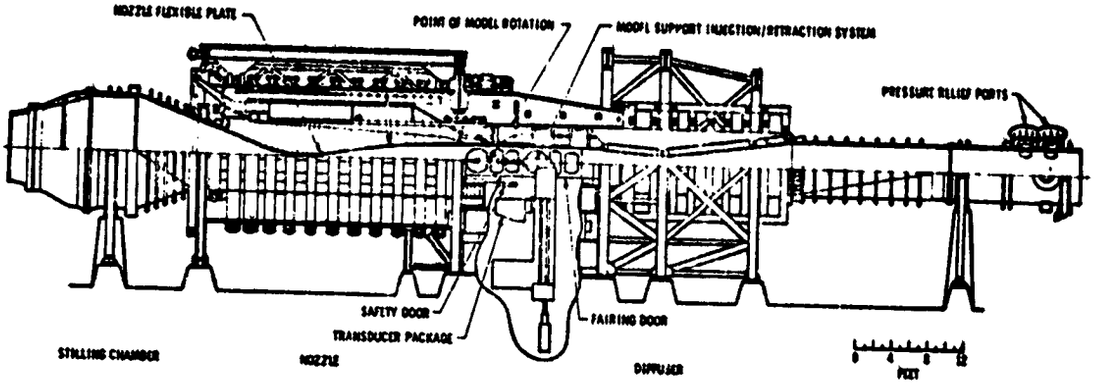


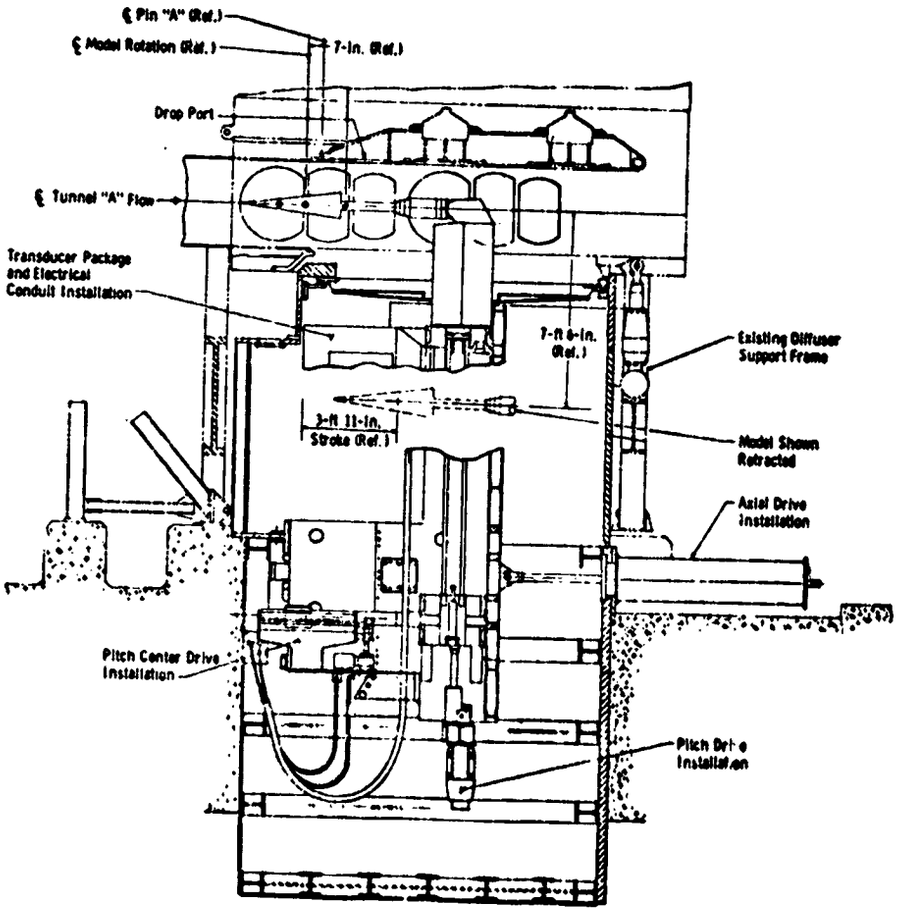
a. Integrated Space Shuttle Vehicle Launch Configuration

Figure 2. Model sketches.



b. External Tank Nose Tip Configurations
Figure 2. Continued.

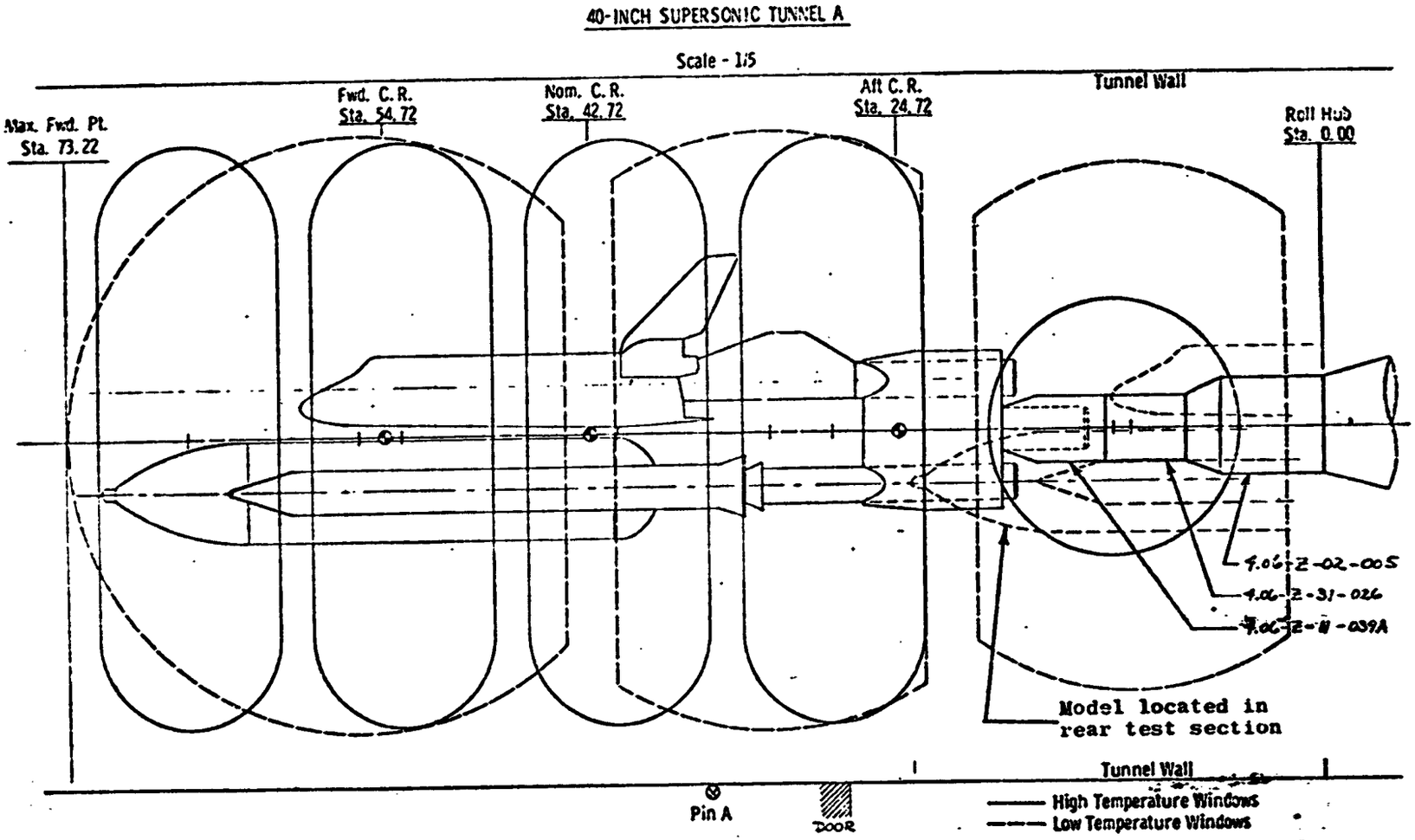




Schematic view of Tunnel A.

c. Schematic View of Tunnel A
Figure 2. Continued.

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d. Model Installation
Figure 2. Concluded.



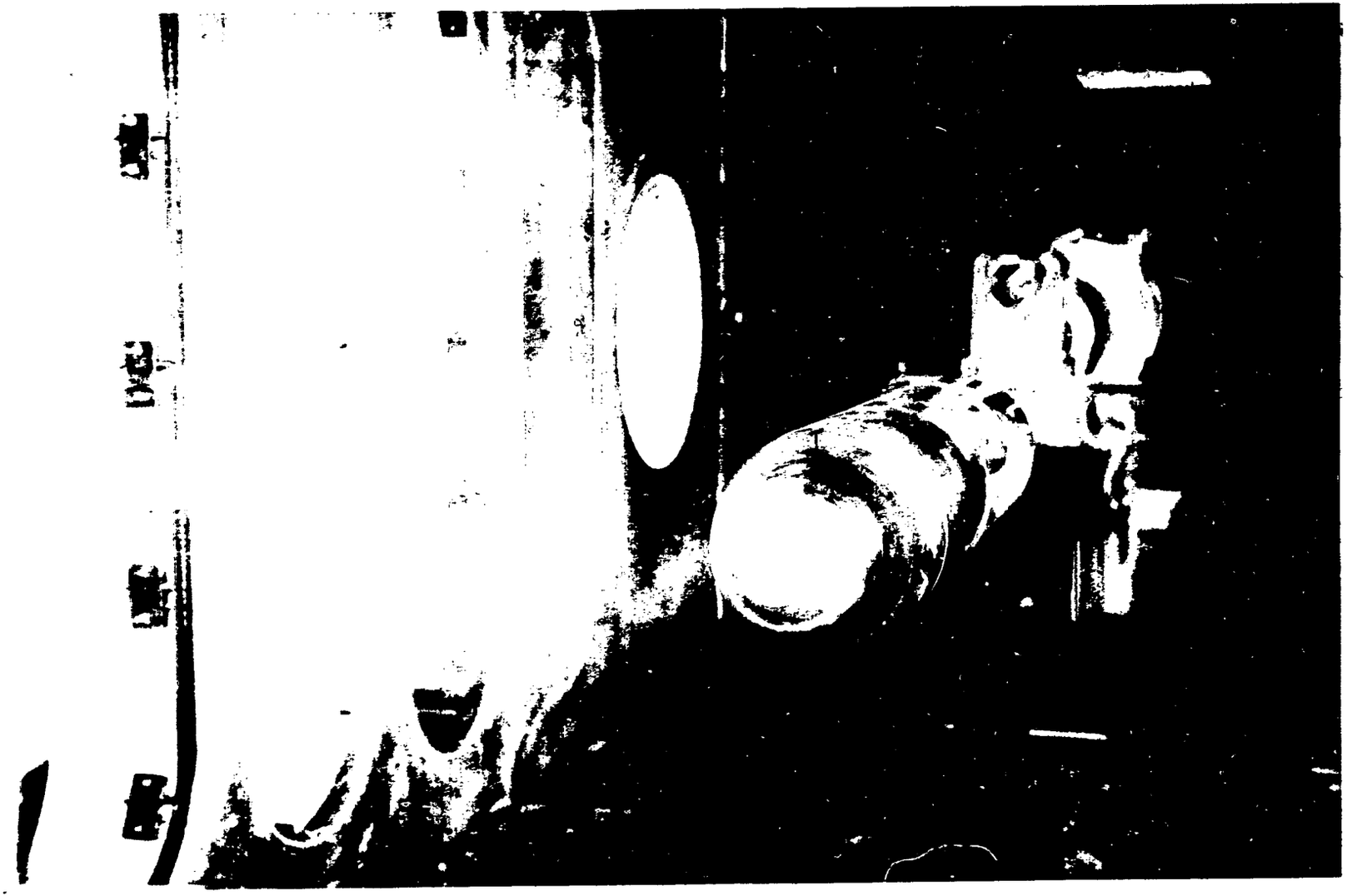
a. Integrated Vehicle Installed in Tunnel A

Figure 3. Model photographs.

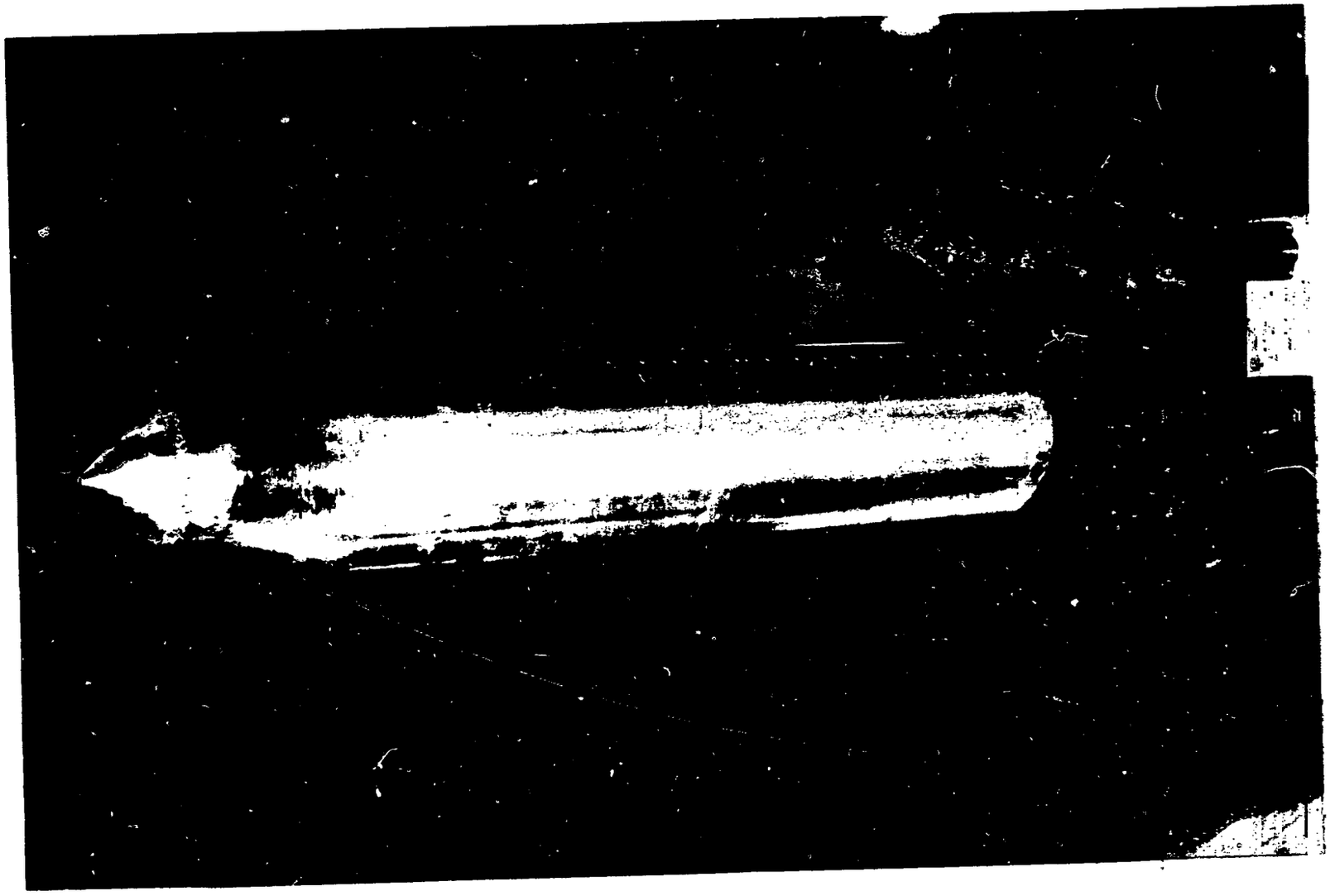
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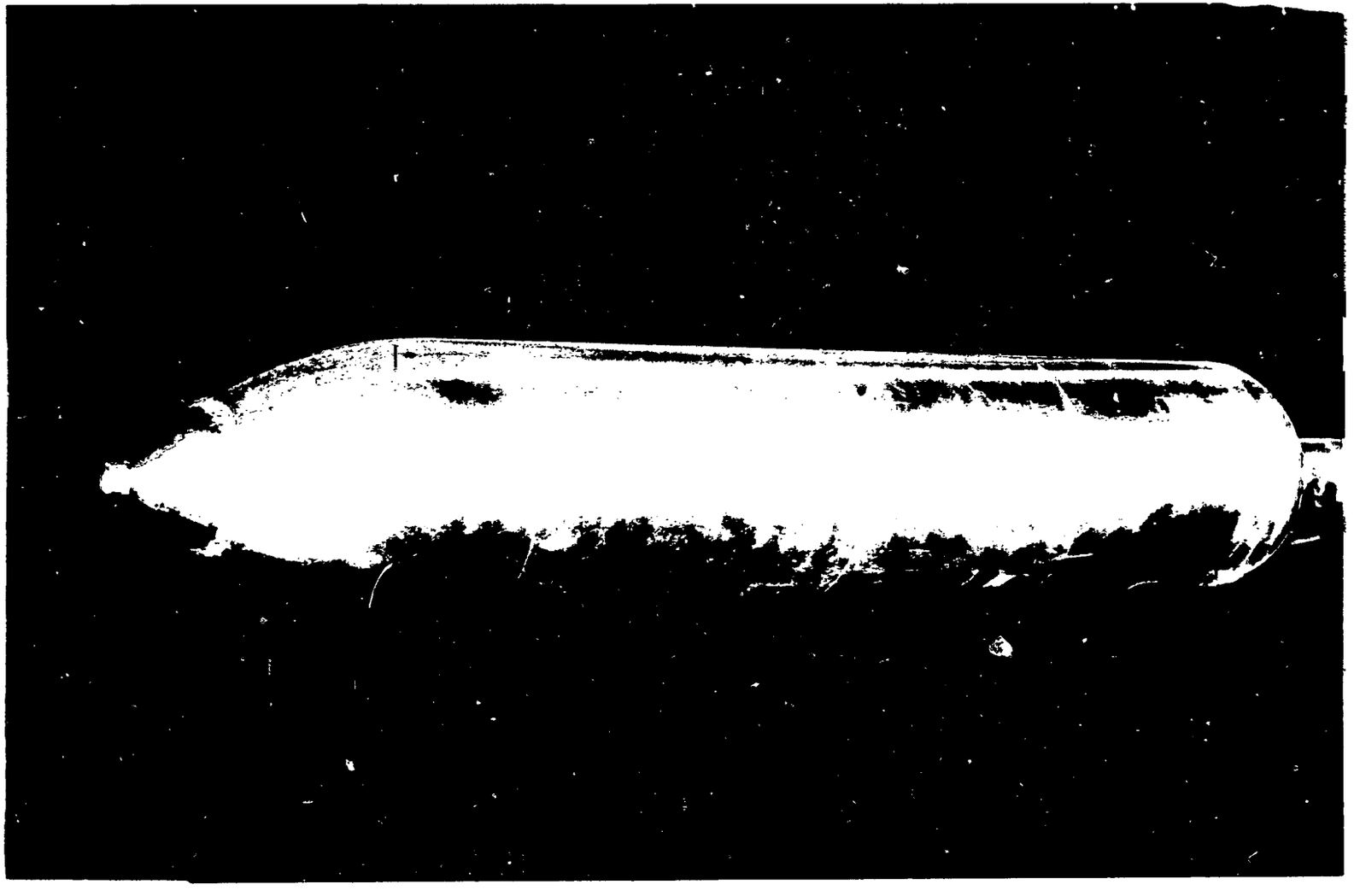
b. External Tank Installed in Tunnel A - Side View
Figure 3. Continued.



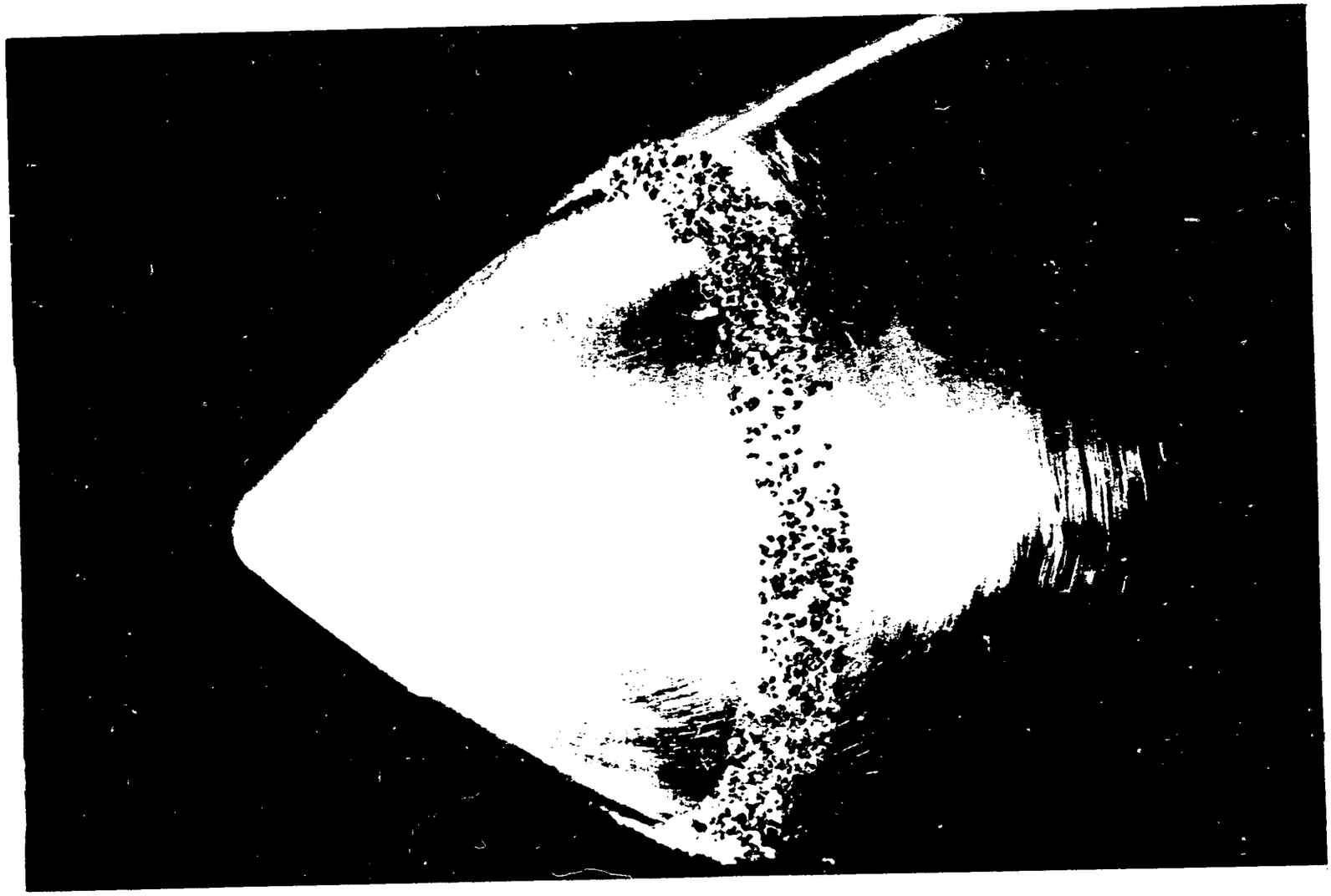
c. External Tank Installed in Tunnel A - Front View
Figure 3. Continued.



d. Side View of Tank with Clean Nose
Figure 3. Continued.



e. Side View of Tank with Nipple Nose
Figure 3. Continued.



f. Clean Nose with Boundary Layer Transition Strip
Figure 3. Continued.

g. Nipple Nose With Boundary Layer Transition Strip
Figure 3. Concluded.

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DATA FIGURES

Note:

The plotted data have been modified such that phi at the top centerline of the tank is 180°. The tab-listing data in the appendix has phi of 0° at the top centerline of the tank.

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F39)	○	IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	5.000	.000	5.000
(BV7F15)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	5.000	.000	5.000
(JV7F39)	◇	IH41(AEDC V41A-A4A) O T S / T (ET DATA) HI/HU	5.000	.000	5.000

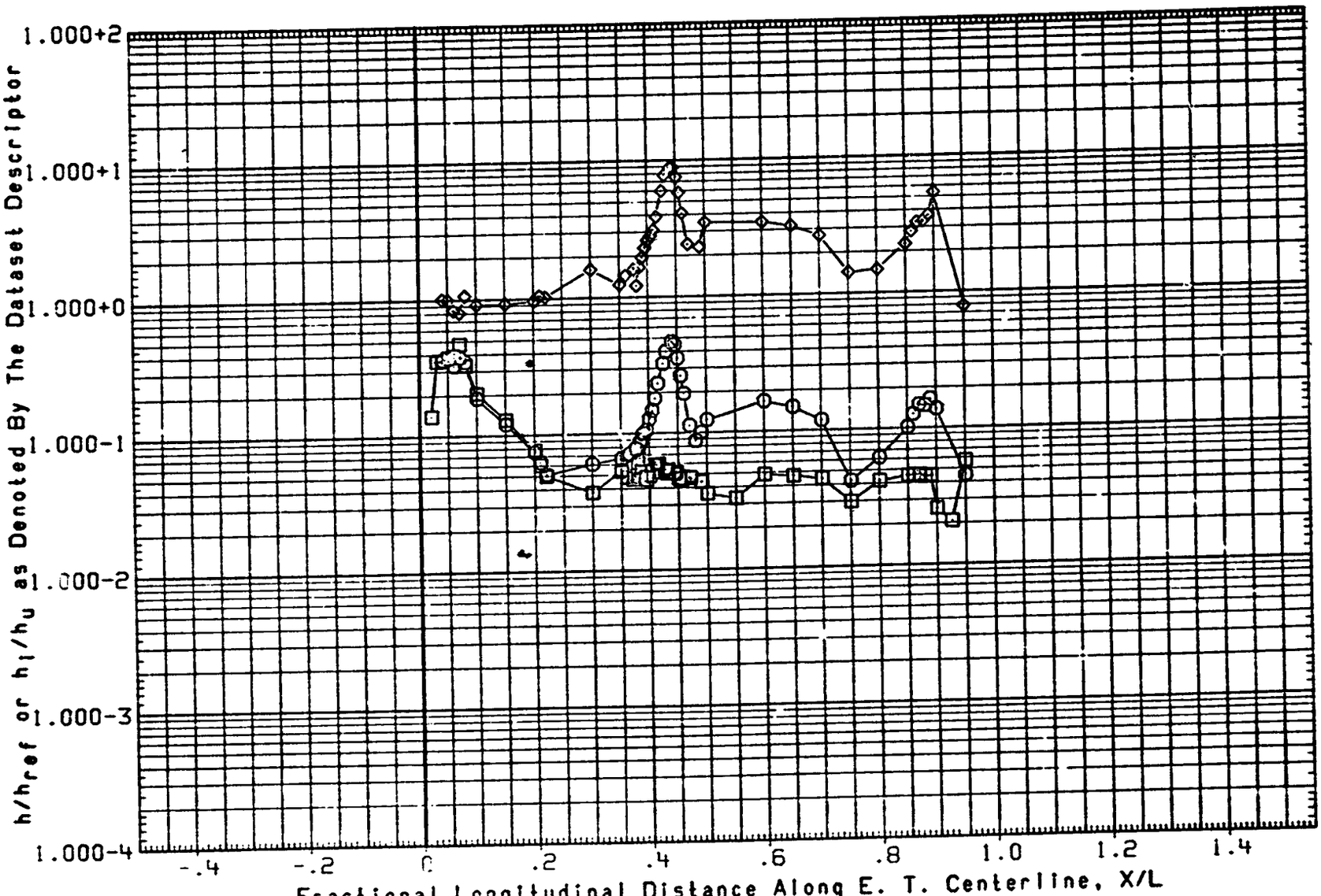


FIGURE 4. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 5, BETA= 0

MACH = 8.510 ALPHA = 5.000 PHI = .000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F39)	○	IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	5.000	.000	5.000
(BV7F15)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	5.000	.000	5.000
(JV7F39)	◇	IH41(AEDC V41A-A4A) O T S / T (ET DATA) H1/HU	5.000	.000	5.000

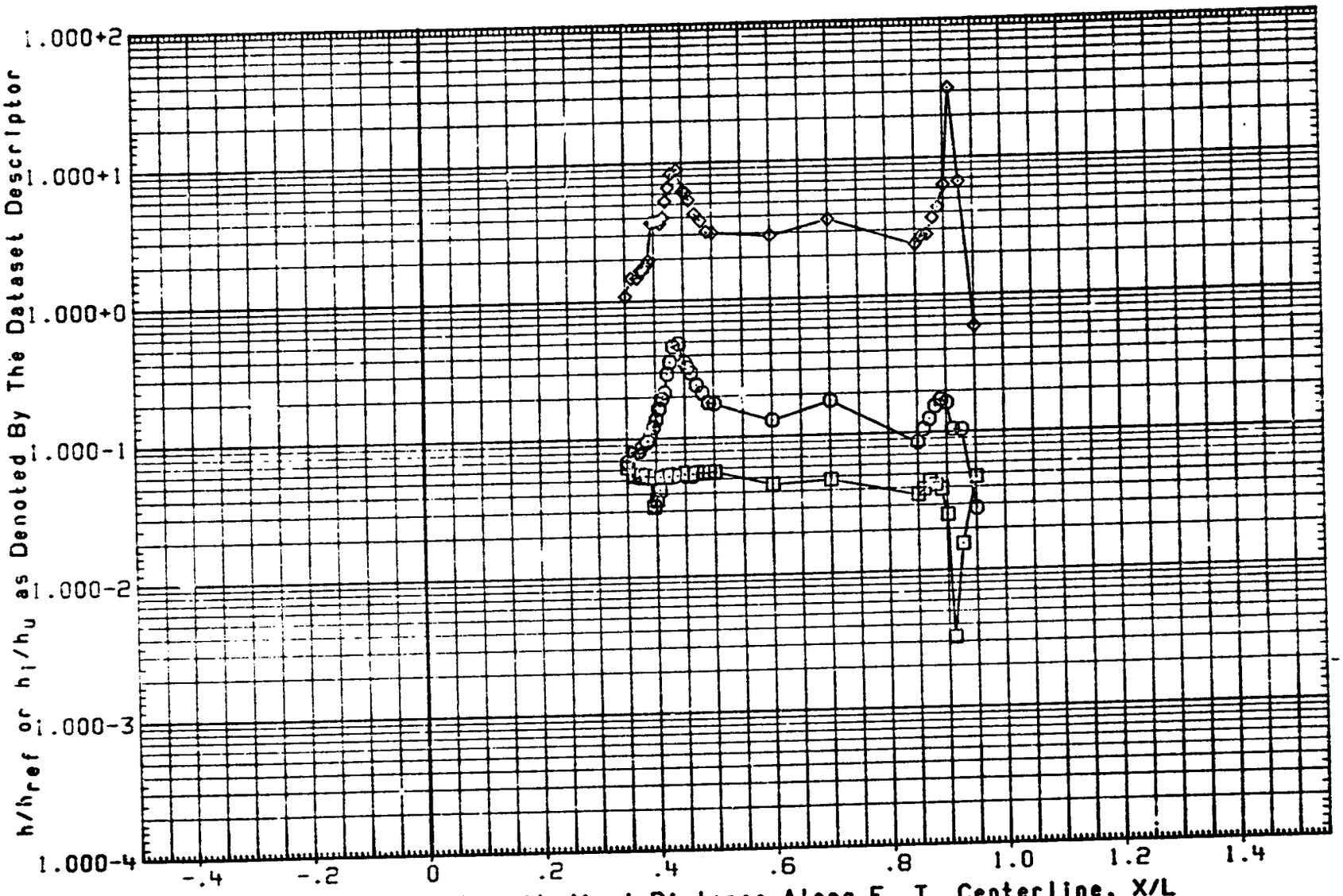


FIGURE 4. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 5, BETA= 0

MACH = 3.510 ALPHA = 5.000 PHI = 11.250

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F39)	○	IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	5.000	.000	5.000
(BV7F15)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	5.000	.000	5.000
(BV7F39)	◇	IH41(AEDC V41A-A4A) O T S / T (ET DATA) HI/HU	5.000	.000	5.000

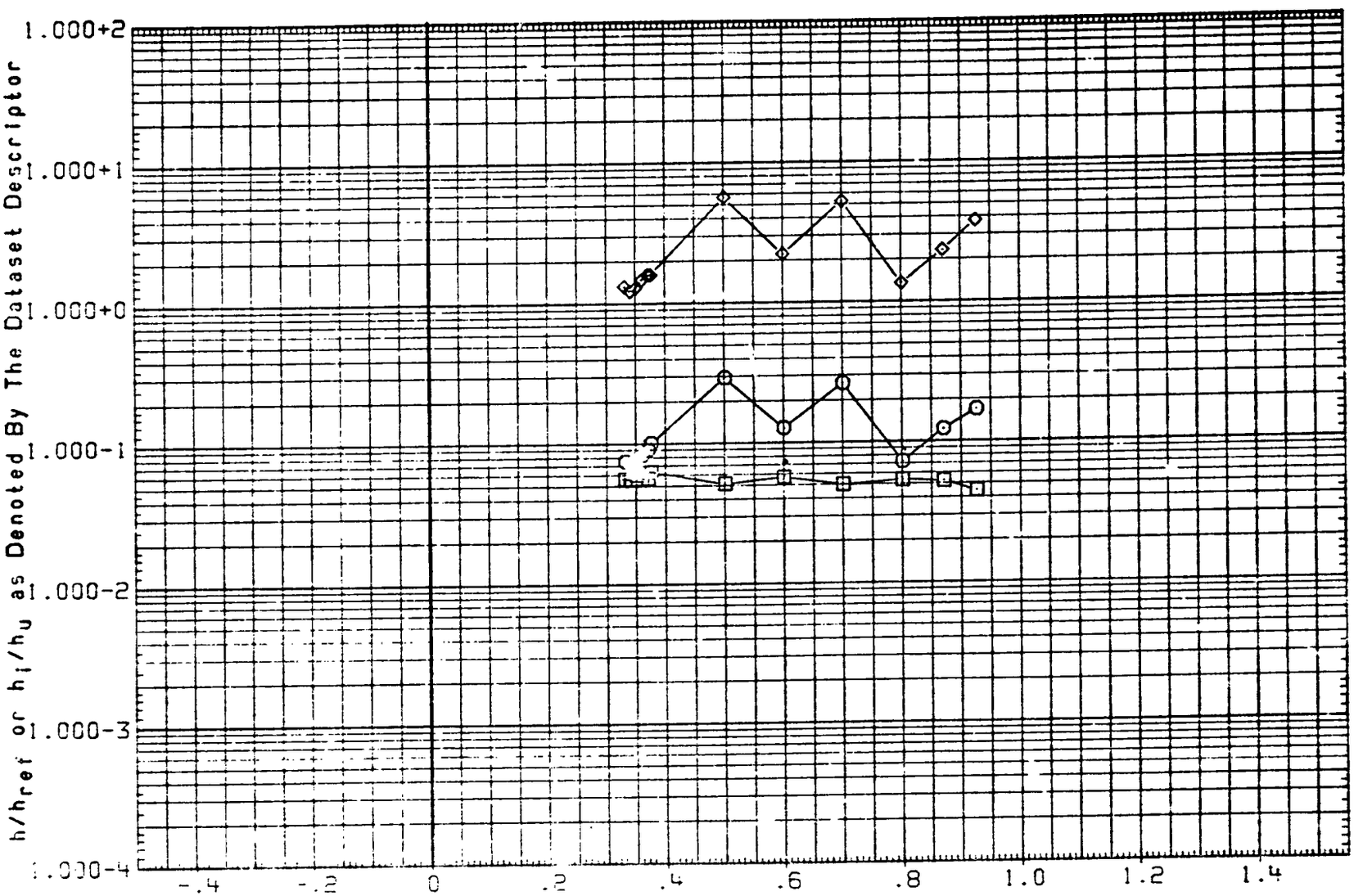


FIGURE 1. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 5, BETA= 0

= 17.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F39)	○	IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	5.000	.000	5.000
(BV7F15)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	5.000	.000	5.000
(BV7F39)	◇	IH41(AEDC V41A-A4A) O T S / T (ET DATA) HI/HU	5.000	.000	5.000

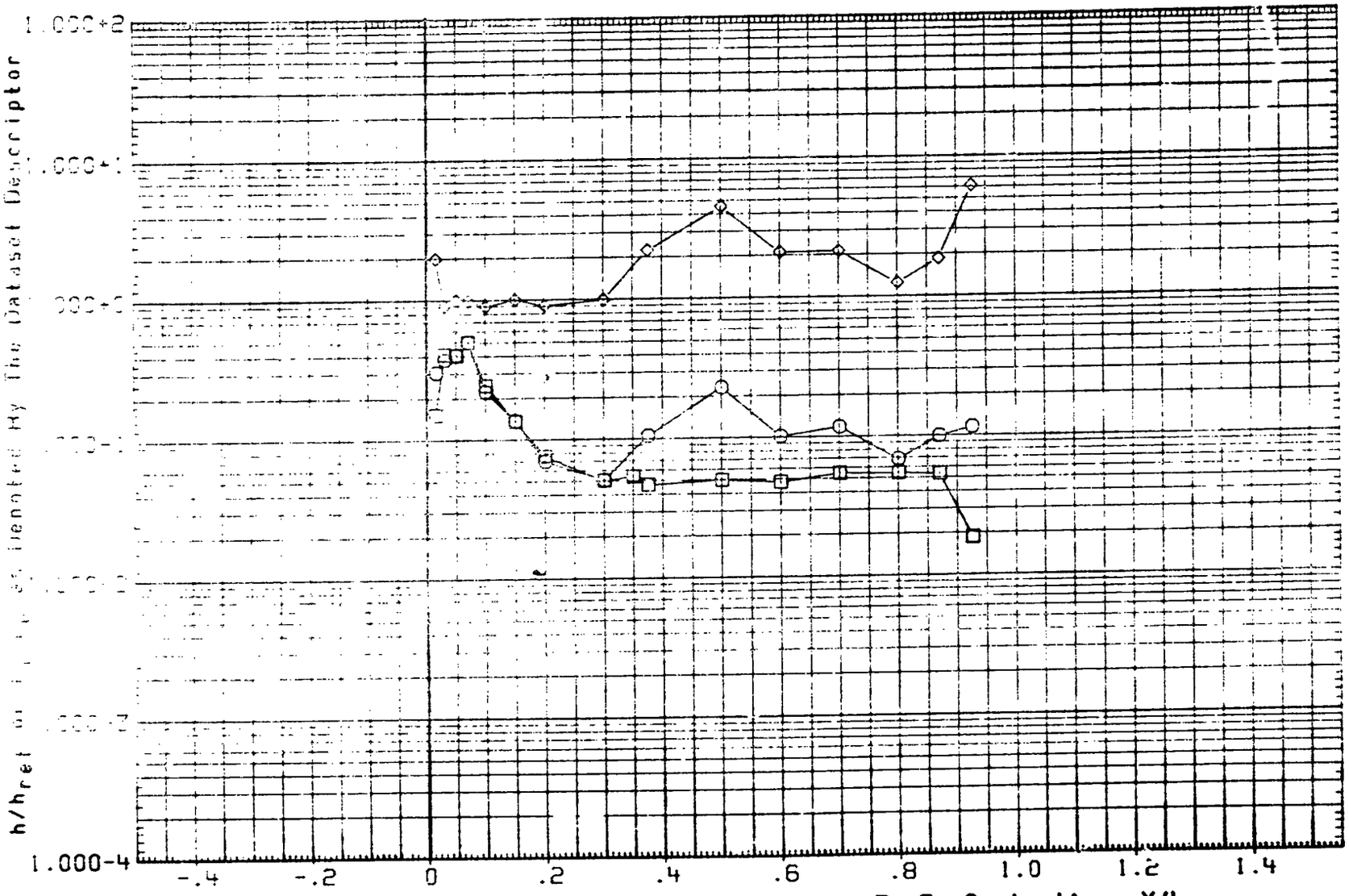


FIGURE 4. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 5, BETA= 0

MACH = 3.510 ALPHA = 5.000 PHI = 29.800

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F39)	○	IHN1(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	5.000	.000	5.000
(BV7F15)	□	IHN1(AEDC V41A-A4A) T3 NIPPLE NOSE ET	5.000	.000	5.000
(JV7F39)	◇	IHN1(AEDC V41A-A4A) O T S / T (ET DATA) HI/HU	5.000	.000	5.000

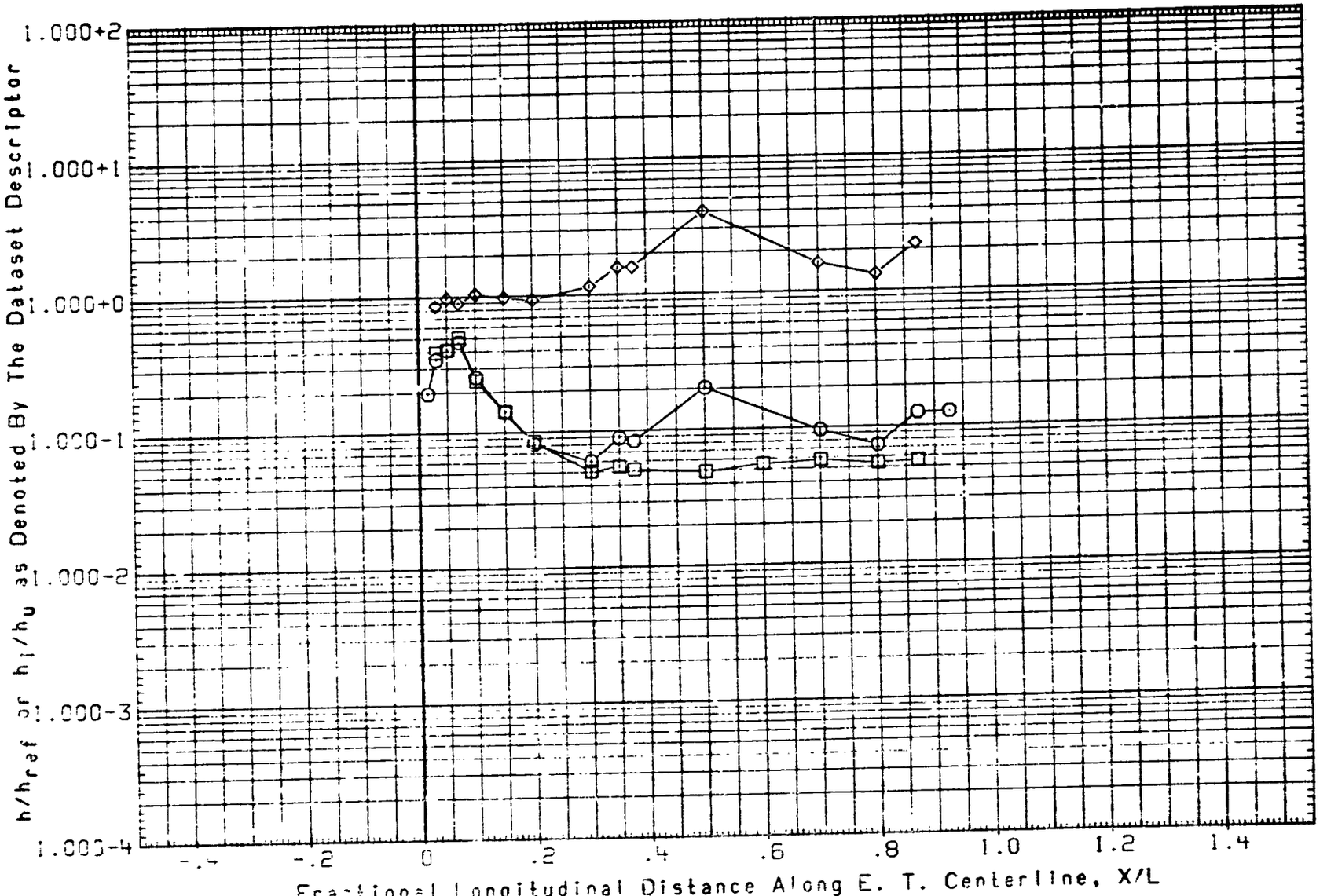


FIGURE 4. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 5, BETA= 0

RN1 = 37.700

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F39)	○	IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	5.000	.000	5.000
(BV7F15)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	5.000	.000	5.000
(JV7F39)	◇	IH41(AEDC V41A-A4A) O T S / T (ET DATA) HI/HU	5.000	.000	5.000

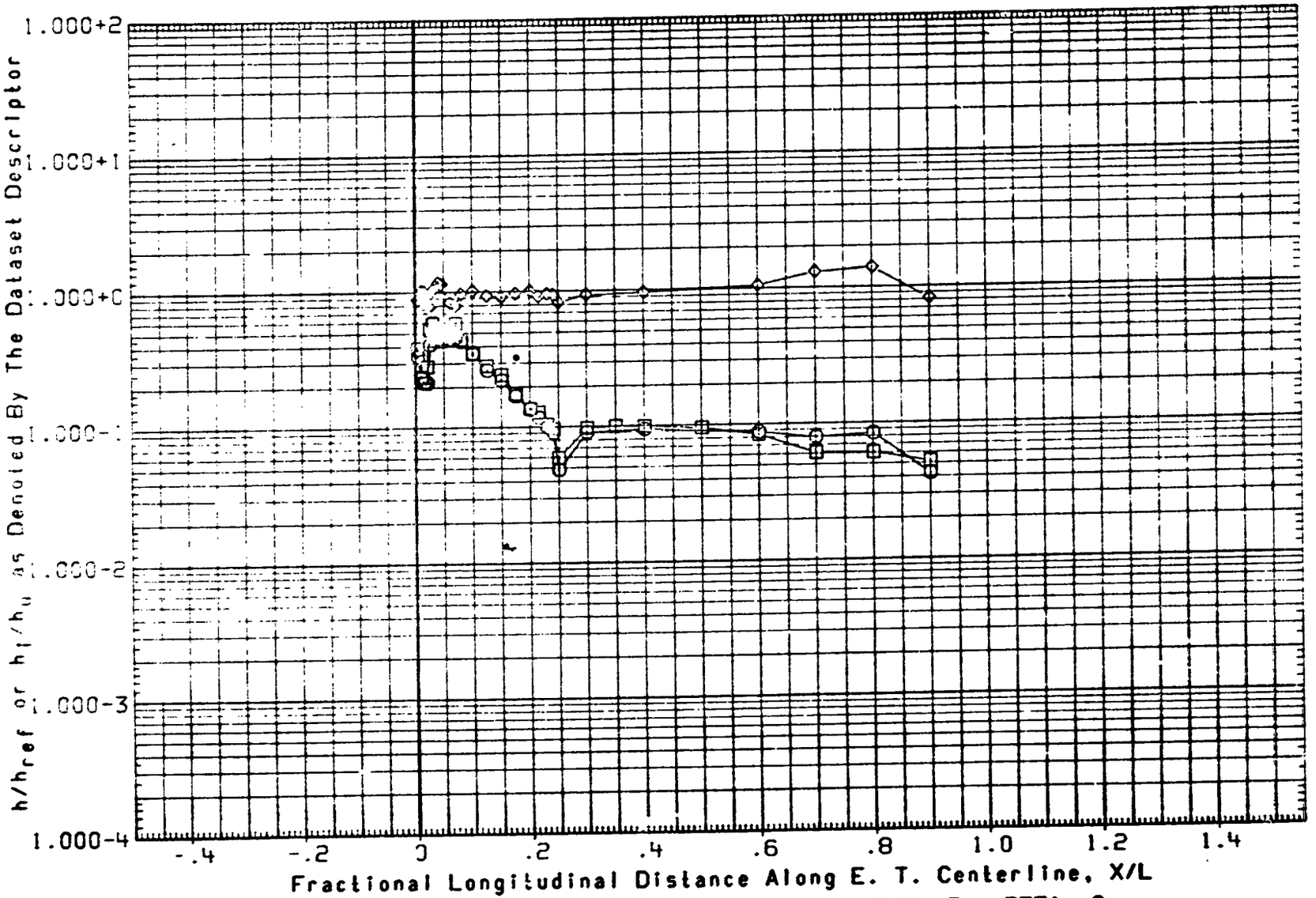


FIGURE 4. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 5, BETA= 0

MACH = 3.510 ALPHA = 5.000 PHI = 180.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F39)	○	IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	5.000	.000	5.000
(BV7F15)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	5.000	.000	5.000
(JV7F39)	◇	IH41(AEDC V41A-A4A) O T S / T (ET DATA) HI/HU	5.000	.000	5.000

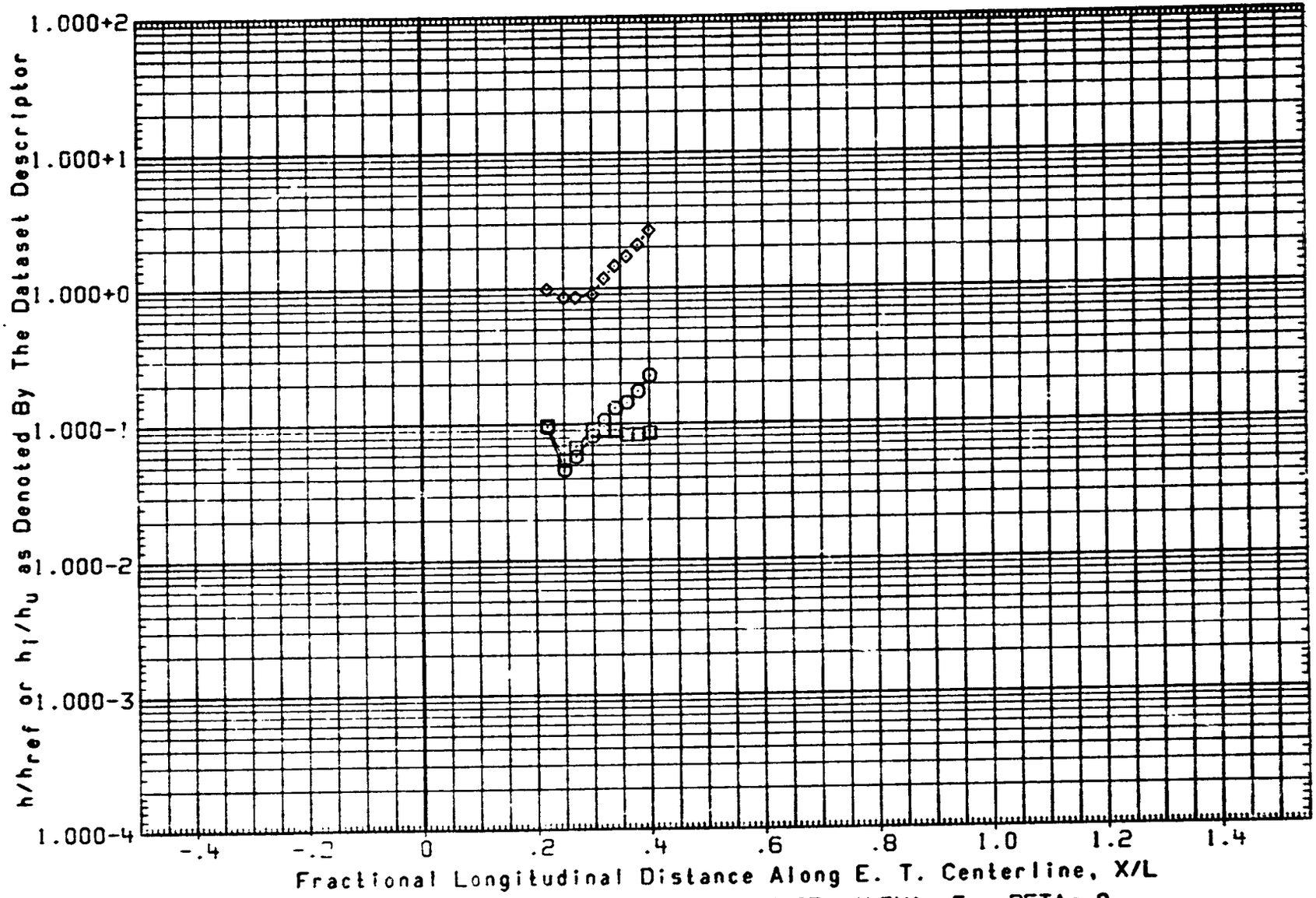


FIGURE 4. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 5, BETA= 0

MACH = 8.610 ALPHA = 5.000 PHI = 235.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F39)	○	IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	5.000	.000	5.000
(BV7F15)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	5.000	.000	5.000
(BV7F39)	◇	IH41(AEDC V41A-A4A) O T S / T (ET DATA) HI/HU	5.000	.000	5.000

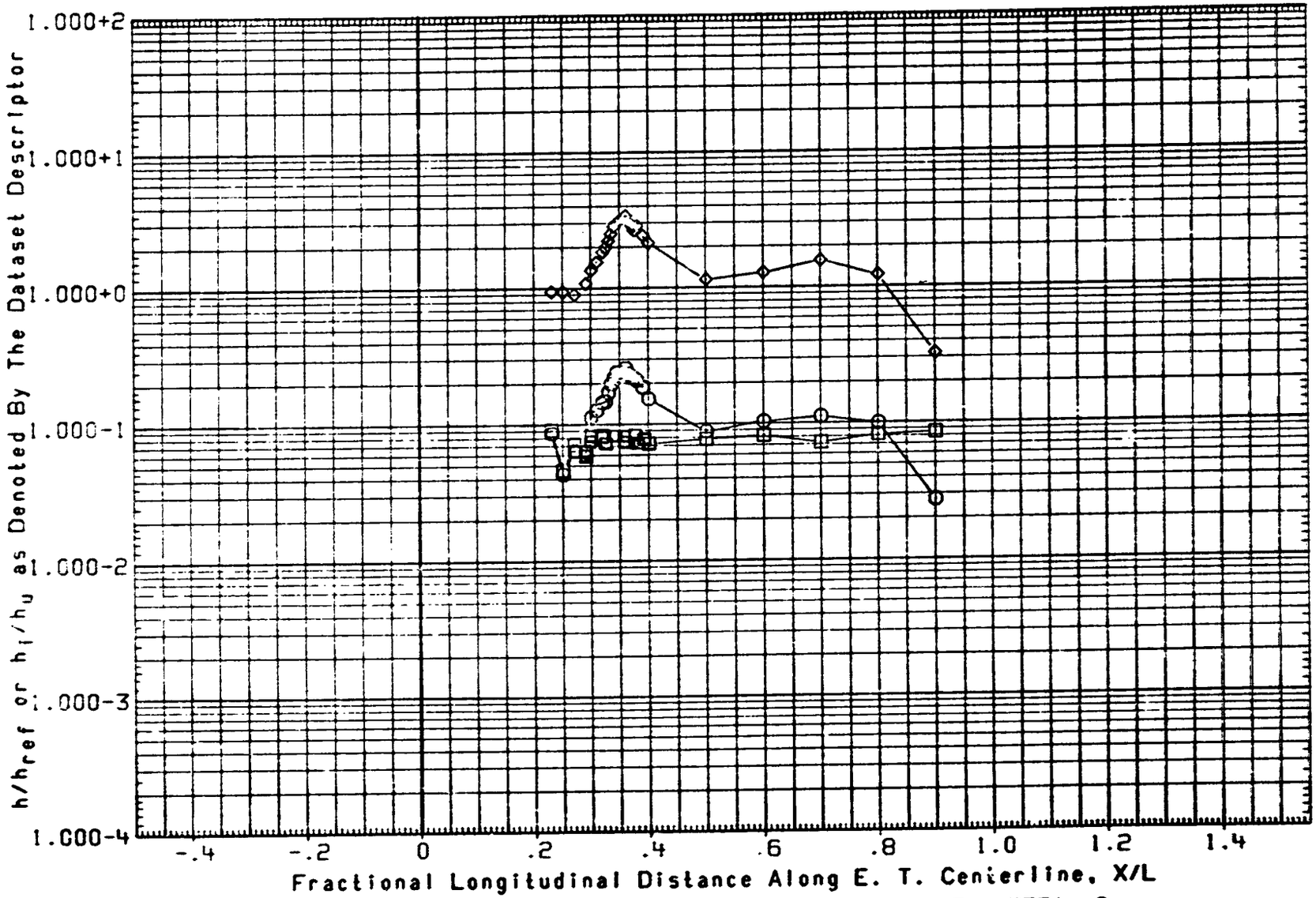


FIGURE 4. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 5, BETA= 0

MACH = 3.510 ALPHA = 5.000 PHI = 247.500

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F39)	○	IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	5.000	.000	5.000
(BV7F15)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	5.000	.000	5.000
(JV7F39)	◇	IH41(AEDC V41A-A4A) O T S / T (ET DATA) HI/HU	5.000	.000	5.000

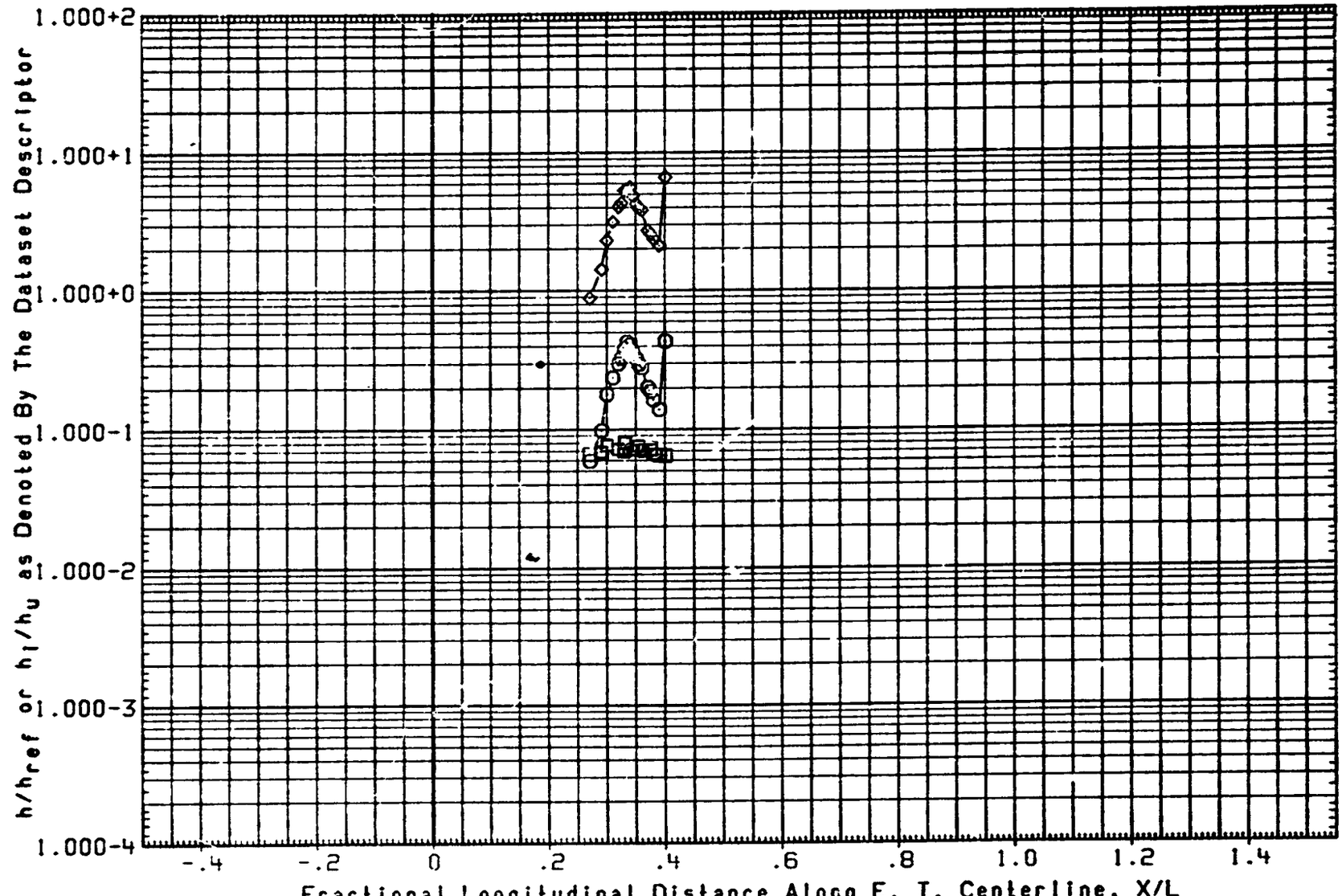


FIGURE 4. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 5, BETA= 0

MACH = 3.510 ALPHA = 5.000 PHI = 258.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(8V7F39)	○	IH+I(AEDC V+1A-A+A) O T S (CONFIG 2) TANK DATA	5.000	.000	5.000
(8V7F15)	□	IH+I(AEDC V+1A-A+A) T3 NIPPLE NOSE ET	5.000	.000	5.000
(JV7F39)	◇	IH+I(AEDC V+1A-A+A) O T S / T (ET DATA) HI/HU	5.000	.000	5.000

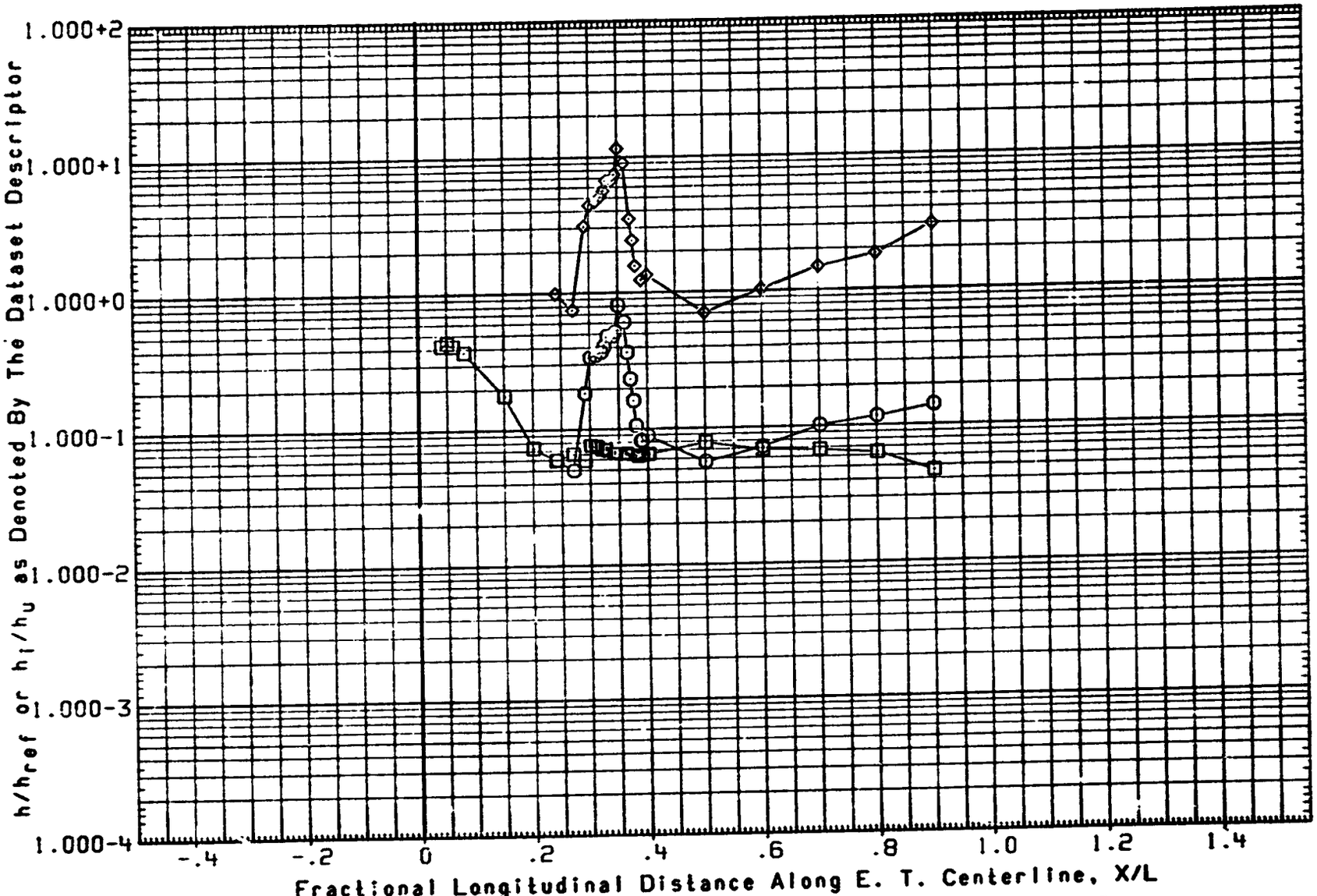


FIGURE 4. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 5, BETA= 0

MACH = 3.510 ALPHA = 5.000 PHI = 270.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F39)	○	IH+I(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	5.000	.000	5.000
(BV7F15)	□	IH+I(AEDC V41A-A4A) T3 NIPPLE NOSE ET	5.000	.000	5.000
(JV[illegible]39)	◇	IH+I(AEDC V41A-A4A) O T S / T (ET DATA) HI/HU	5.000	.000	5.000

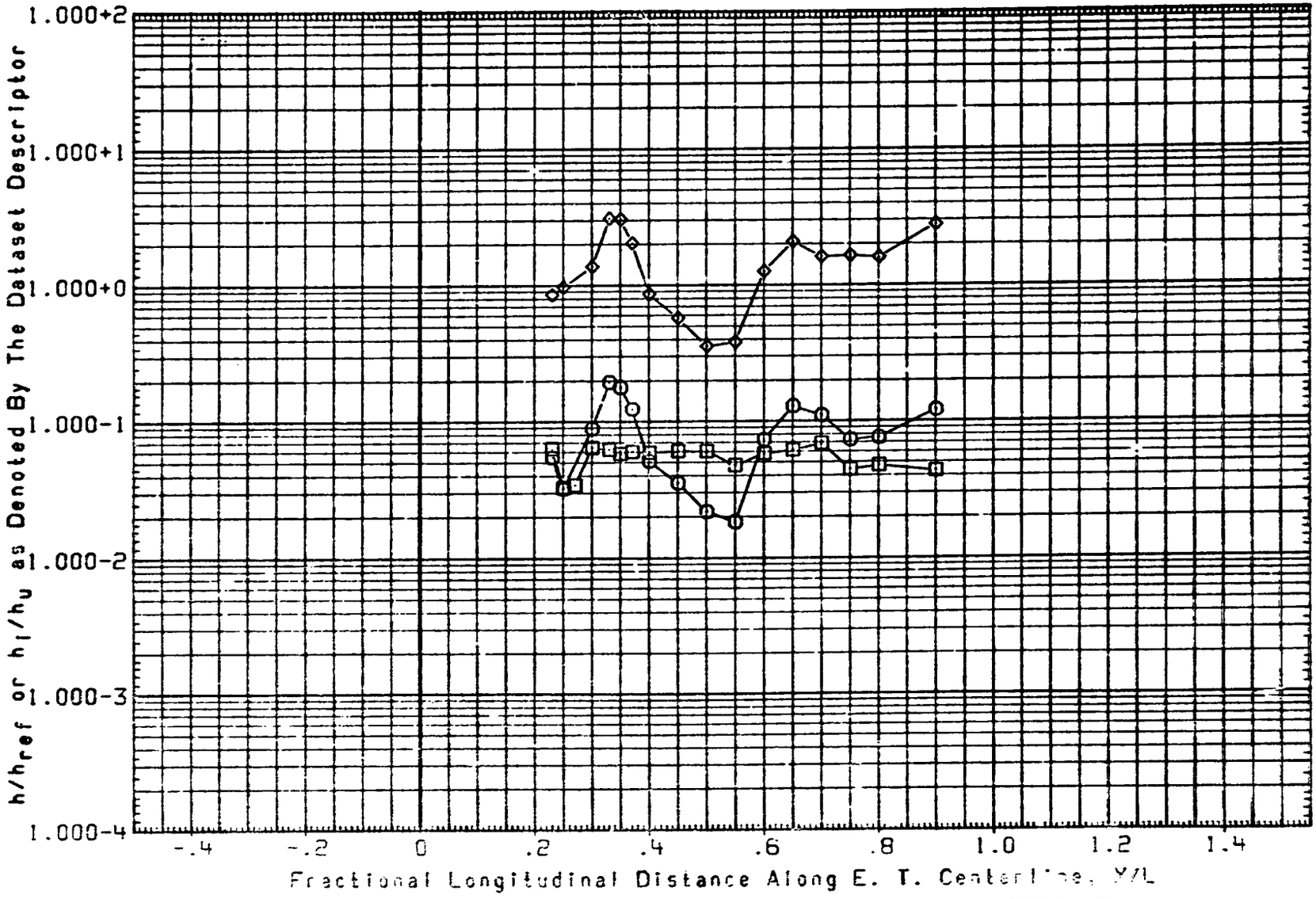


FIGURE 4. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 5, BETA= 0

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F39)	○	IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	5.000	.000	5.000
(BV7F15)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	5.000	.000	5.000
(JV7F39)	◇	IH41(AEDC V41A-A4A) O T S / T (ET DATA) HI/HJ	5.000	.000	5.000

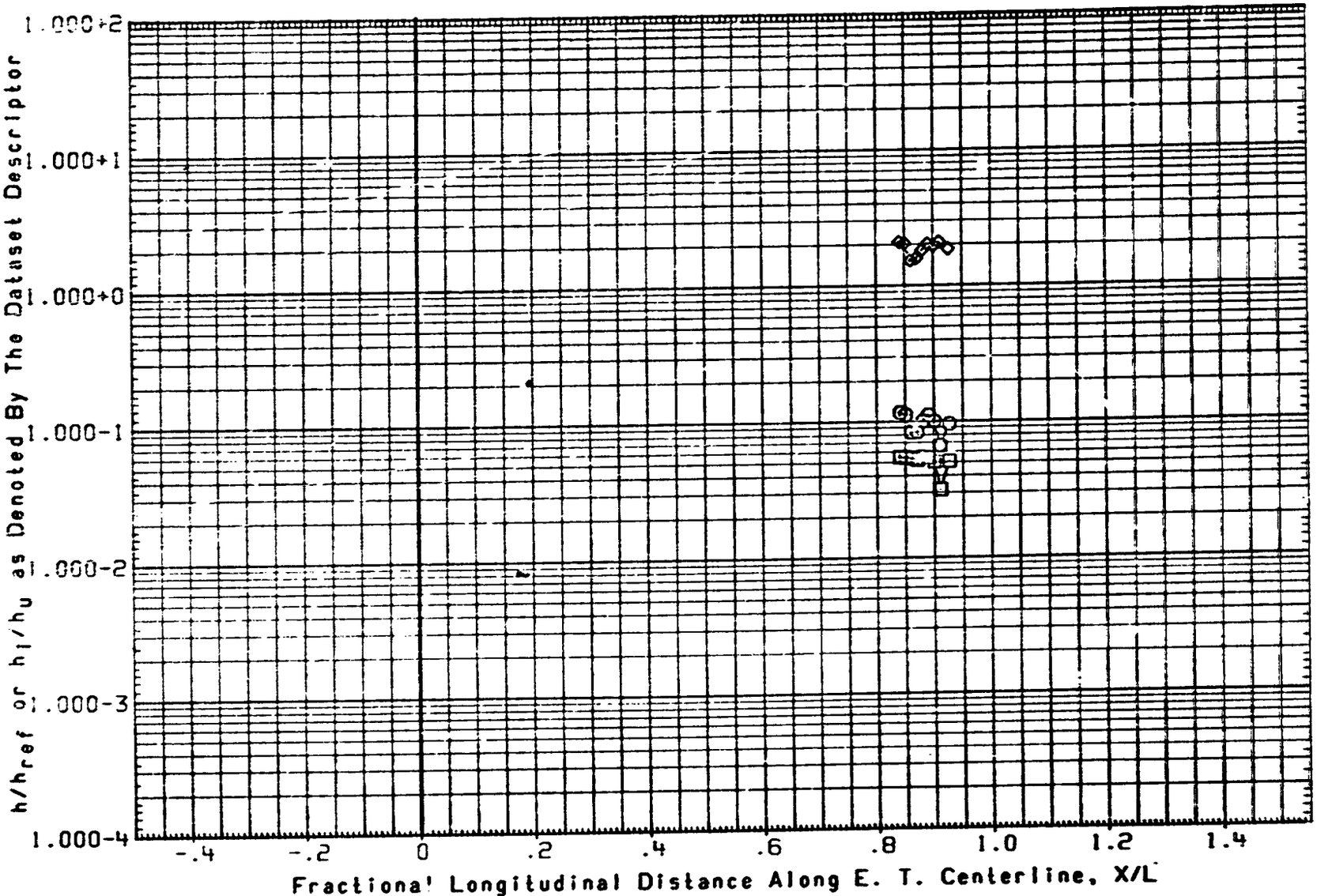
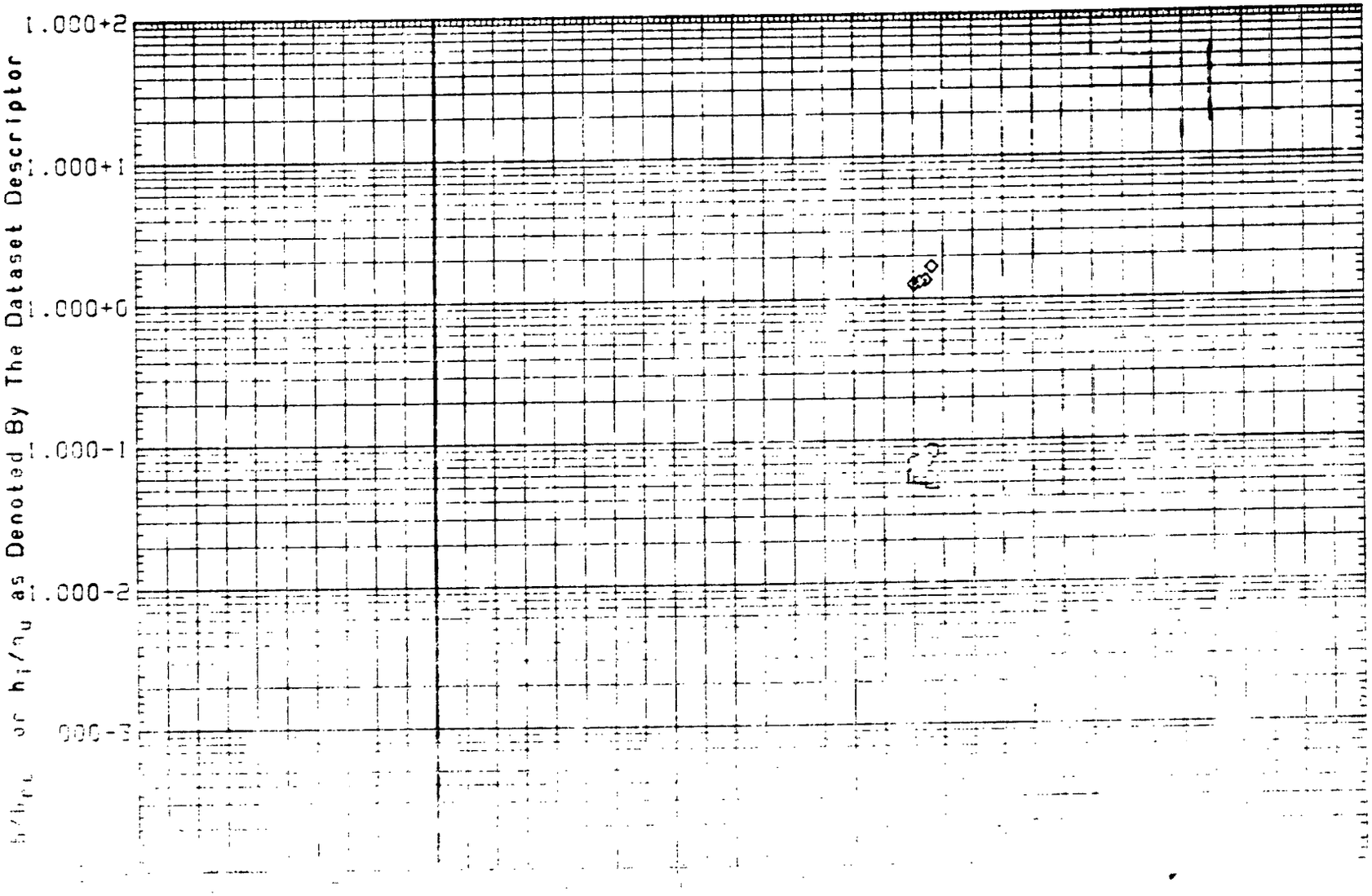


FIGURE 4. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 5, BETA= 0

MACH = 3.310 ALPHA = 5.000 PHI = 305.400

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F39)	○	IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	5.000	.000	5.000
(BV7F15)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	5.000	.000	5.000
(BV7F39)	◇	IH41(AEDC V41A-A4A) O T S / T (ET DATA) HI/HU	5.000	.000	5.000



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F39)	○	IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	5.000	.000	5.000
(BV7F15)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	5.000	.000	5.000
(BV7F39)	◇	IH41(AEDC V41A-A4A) O T S / T (ET DATA) HI/HU	5.000	.000	5.000

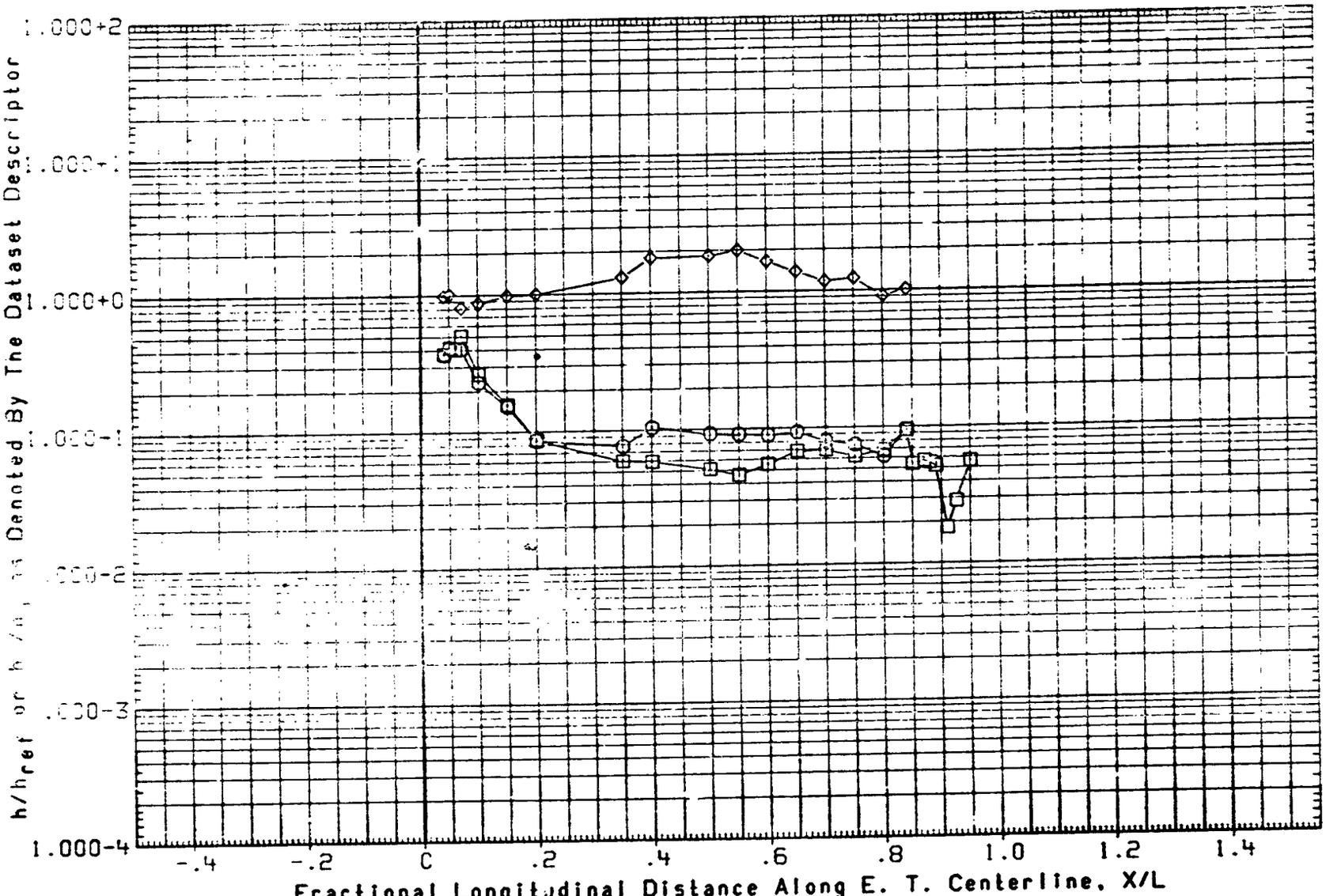
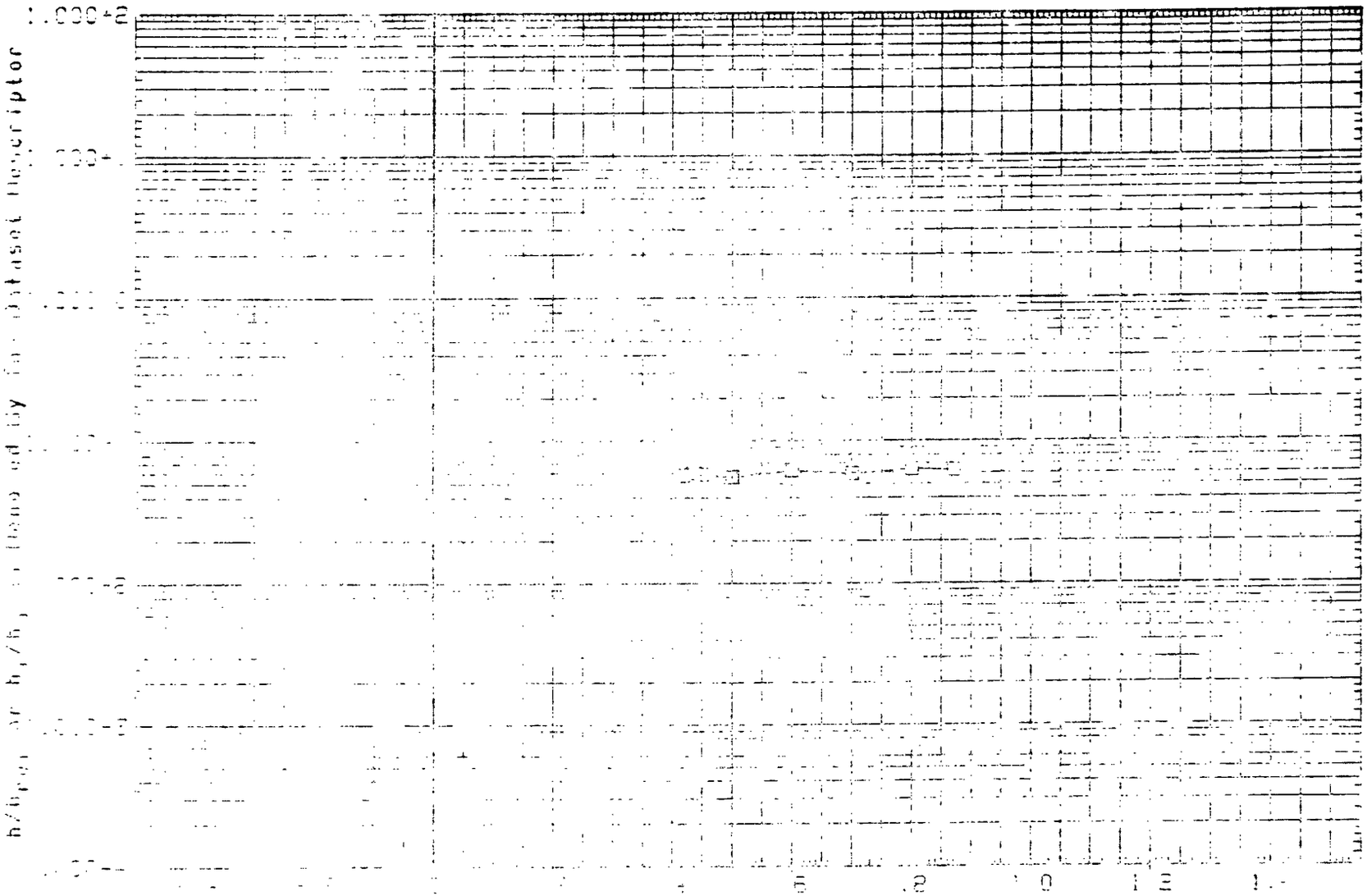


FIGURE 4. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 5, BETA= 0

MACH = 3.510 ALPHA = 5.000 PHI = 315.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(B,7F39)	○	DATA NOT AVAILABLE	5.000	.000	5.000
(B,7F15)	□	IH41(AEDC V41A-A41) T3 NIPPLE NOSE ET	5.000	.000	5.000
(C,7F39)	◇	DATA NOT AVAILABLE	5.000	.000	5.000



Distance along E. T. Centerline, X/L

ALONG THE E. T. SURFACE, ALPHA= 5. BETA= 0

TIME = 773.500

PAGE 3

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
BV7703		DATA NOT AVAILABLE	5.000	.000	5.000
BV7F.5	[illegible]	[illegible] AEDC [illegible] T5 NIPPLE NOSE ET	5.000	.000	5.000
[illegible]	[illegible]	DATA NOT AVAILABLE	5.000	.000	5.000

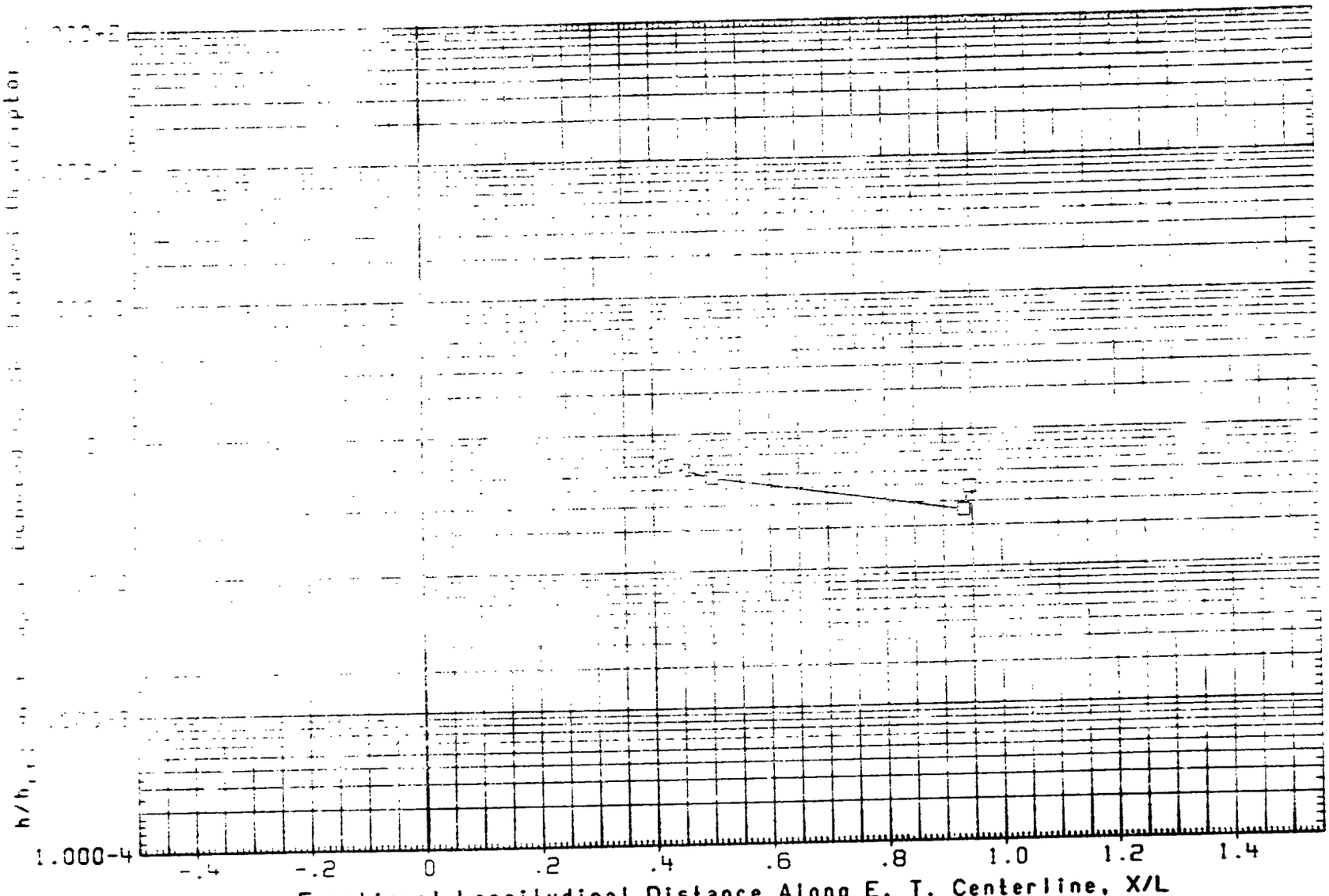
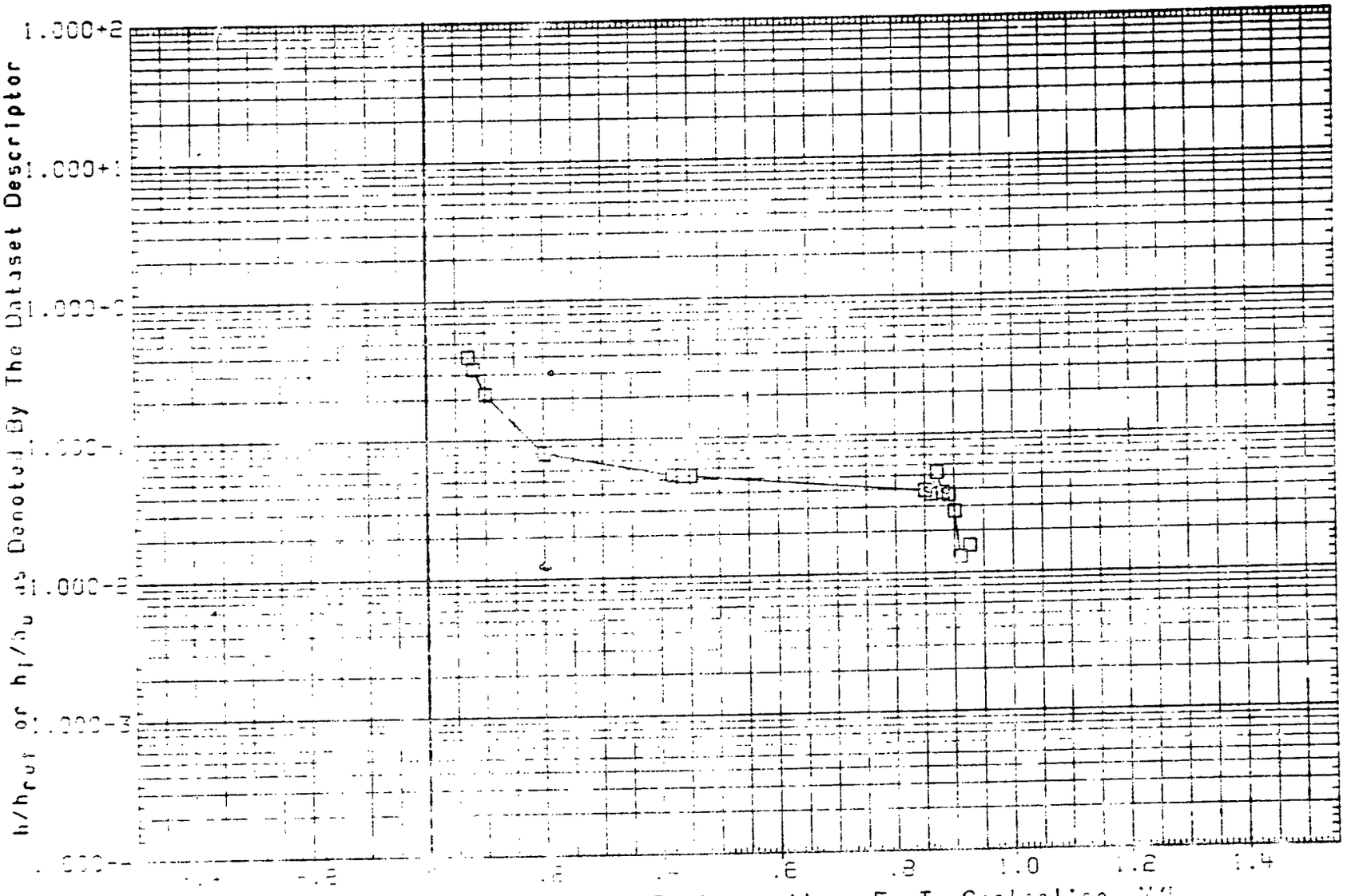


FIGURE 4. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 5, BETA= 0

MACH = 3.510 ALPHA = 5.000 PHI = 334.980

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F39)	○	DATA NOT AVAILABLE	5.000	.000	5.000
(BV7F15)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	5.000	.000	5.000
(BV7F39)	◇	DATA NOT AVAILABLE	5.000	.000	5.000



E. T. SURFACE, ALPHA= 5, BETA= 0

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(8V,7F39)	○	DATA NOT AVAILABLE	5.000	.000	5.000
(8V,7F16)	□	[H4] AEDC V4 (A-44A) T3 NIPPLE NOSE ET	5.000	.000	5.000
(,7F39)	◇	DATA NOT AVAILABLE	5.000	.000	5.000

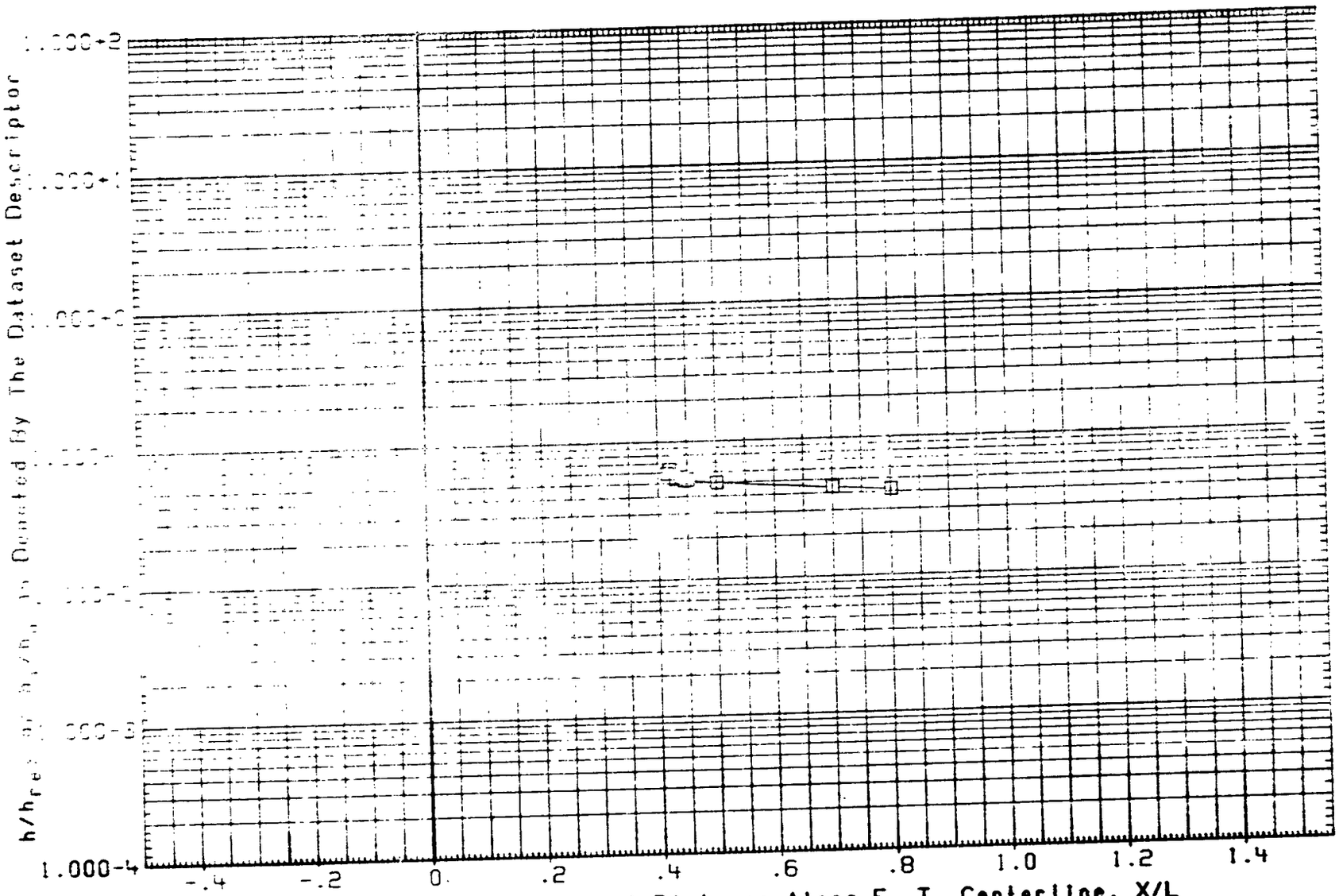


FIGURE 4. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 5, BETA= 0

MACH = 3.510 ALPHA = 5.000 PHI = 343.120

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F39)	○	DATA NOT AVAILABLE	5.000	.000	5.000
(BV7F15)	□	(HH)(AEDC V-1A-A4A) T3 NIPPLE NOSE ET	5.000	.000	5.000
(JV7F39)	◇	DATA NOT AVAILABLE	5.000	.000	5.000

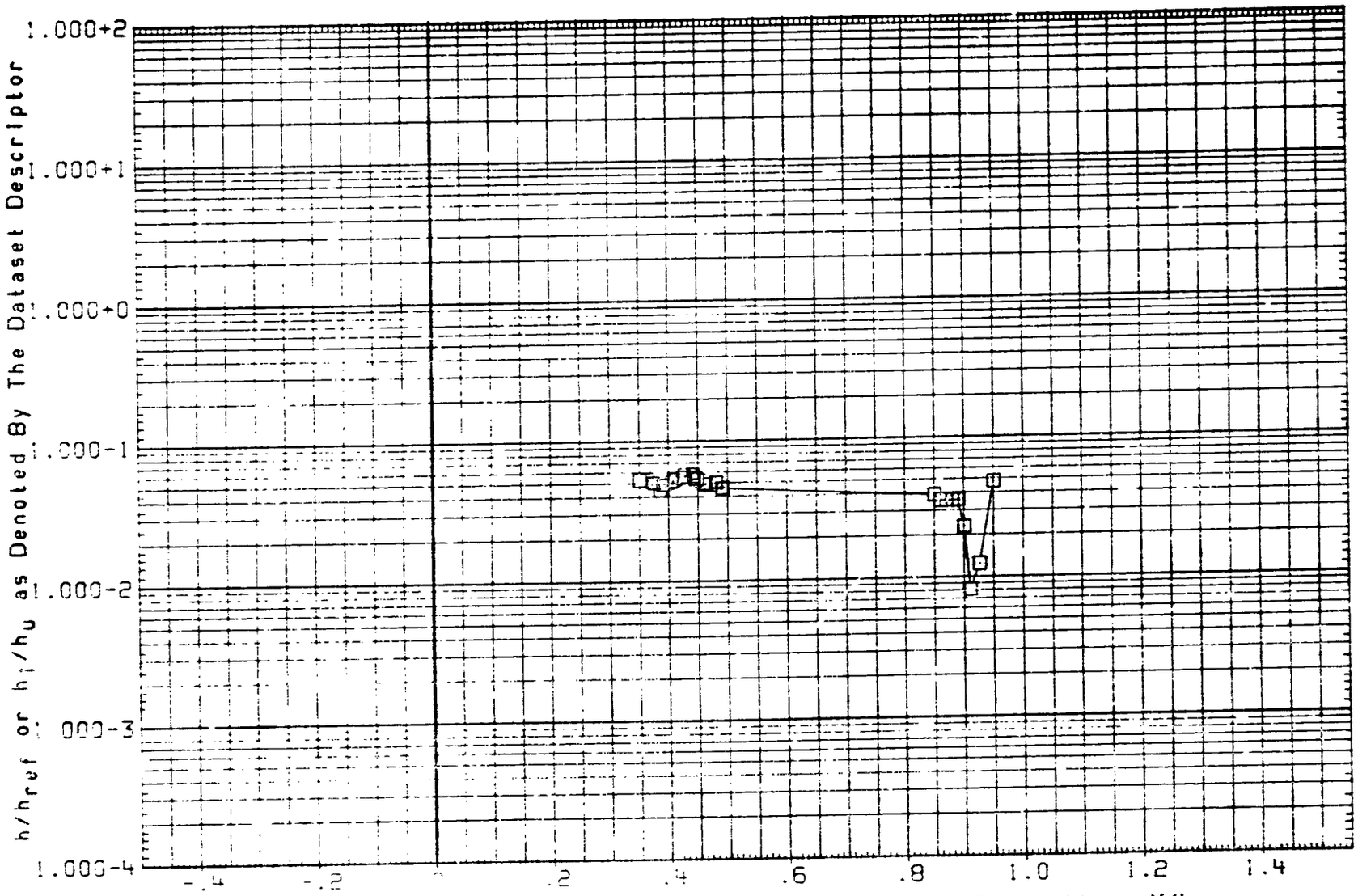


FIGURE [illegible] ALONG THE E. T. SURFACE, ALPHA= 5, BETA= 0

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DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(B,TF+0)	○	(H+1 AEDC W41A-A4A) O T S (CONFIG 2) TANK DATA	5.000	-3.000	5.000
(B,TF+5)	□	(H+1 AEDC W41A-A4A) T3 NIPPLE NOSE ET	5.000	-3.000	5.000
(B,TF+0)	◇	(H+1 AEDC W41A-A4A) O T S / T (ET DATA) HI/HU	5.000	-3.000	5.000

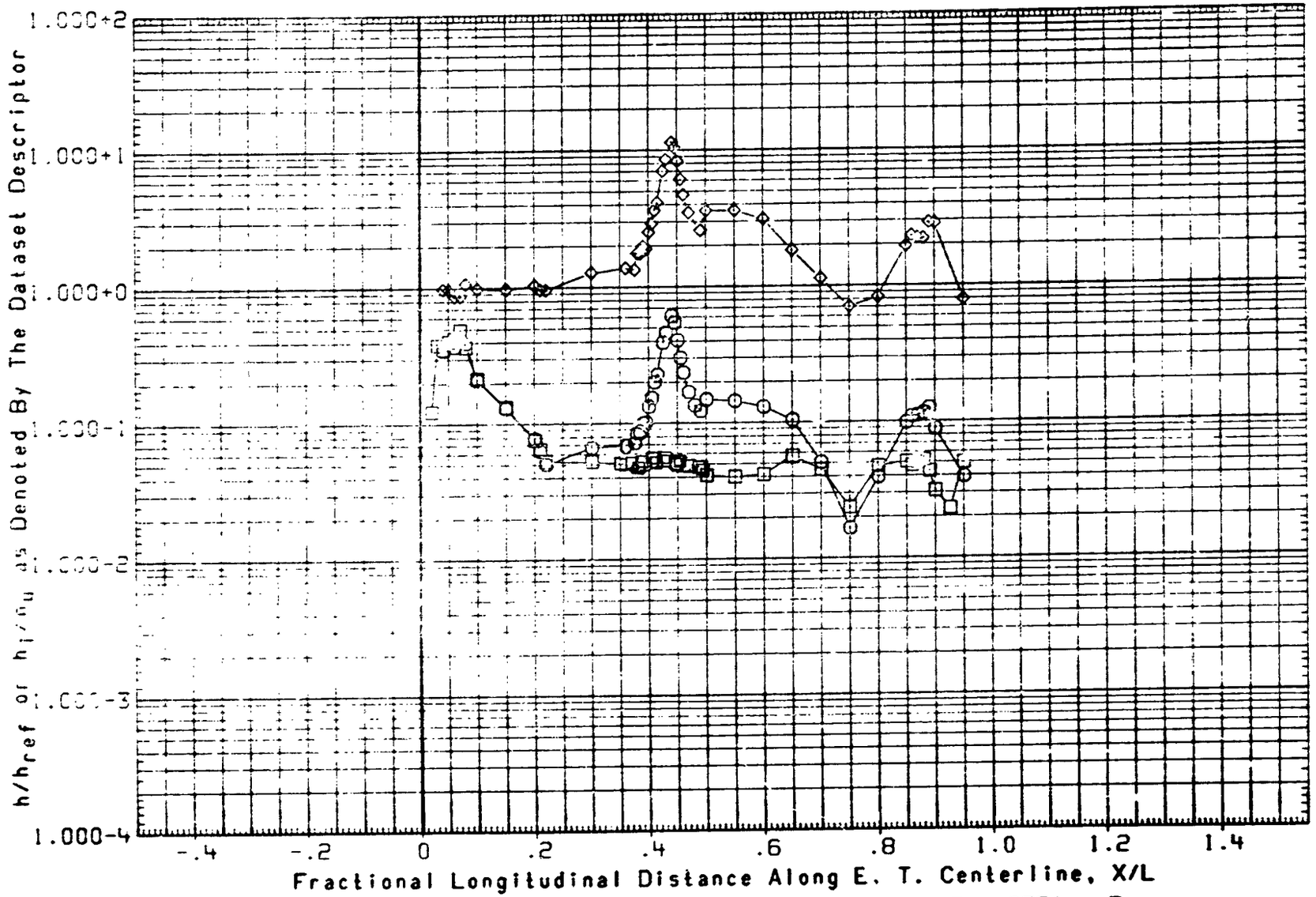
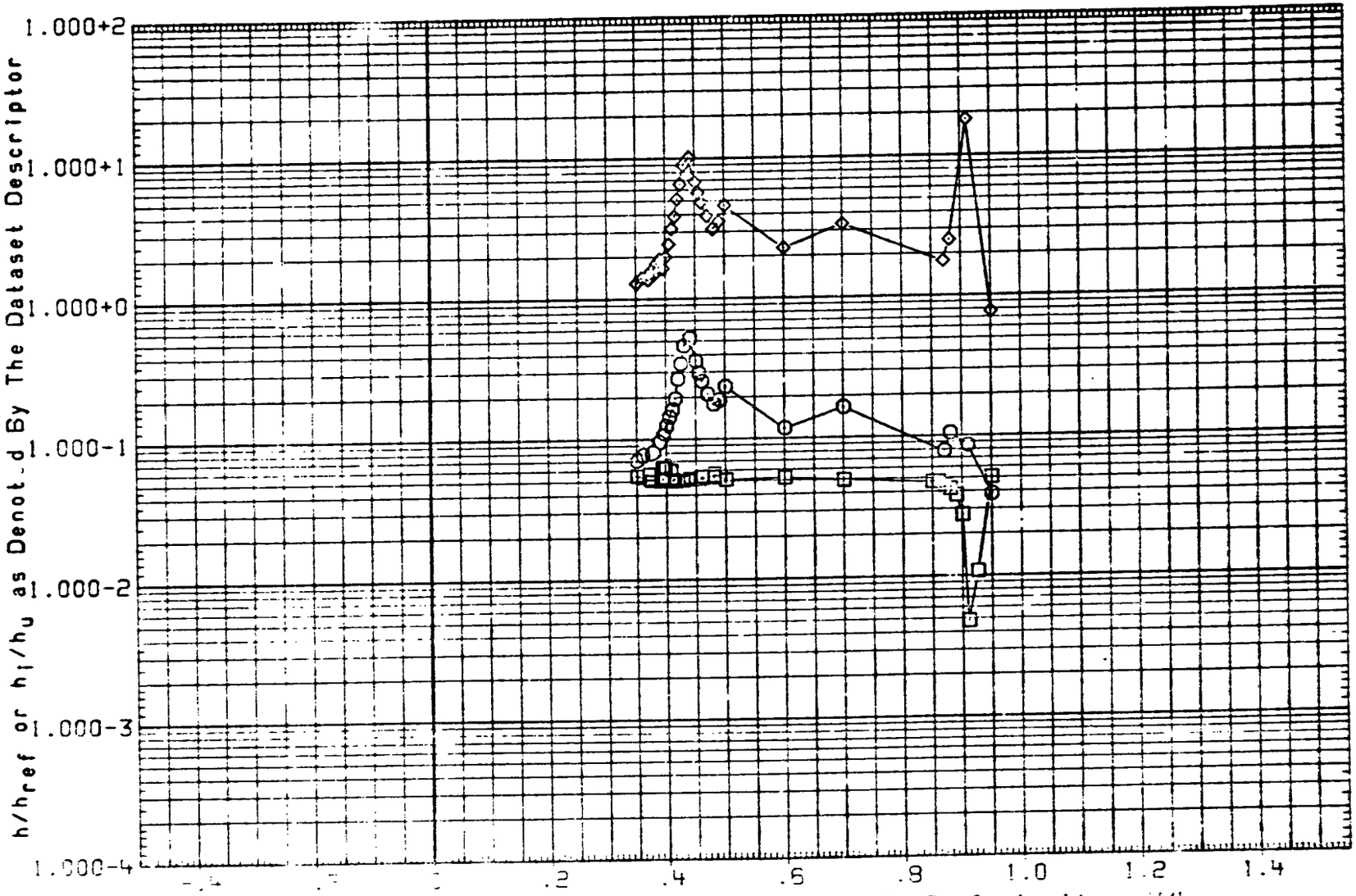


FIGURE 5. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 5, BETA= -3

MACH = 3.510 ALPHA = 5.000 PHI = .000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	beTA	RN/L
(BV7F40)	○	IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	5.000	-3.000	5.000
(BV7F16)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	5.000	-3.000	5.000
(JV7F40)	◇	IH41(AEDC V41A-A4A) O T S / T (ET DATA) HI/HU	5.000	-3.000	5.000



THE E. T. SURFACE, ALPHA= 5. BETA= -3

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F40)	○	IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	5.000	-3.000	5.000
(BV7F16)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	5.000	-3.000	5.000
(CV7F40)	◇	IH41(AEDC V41A-A4A) O T S / T (ET DATA) HI/HU	5.000	-3.000	5.000

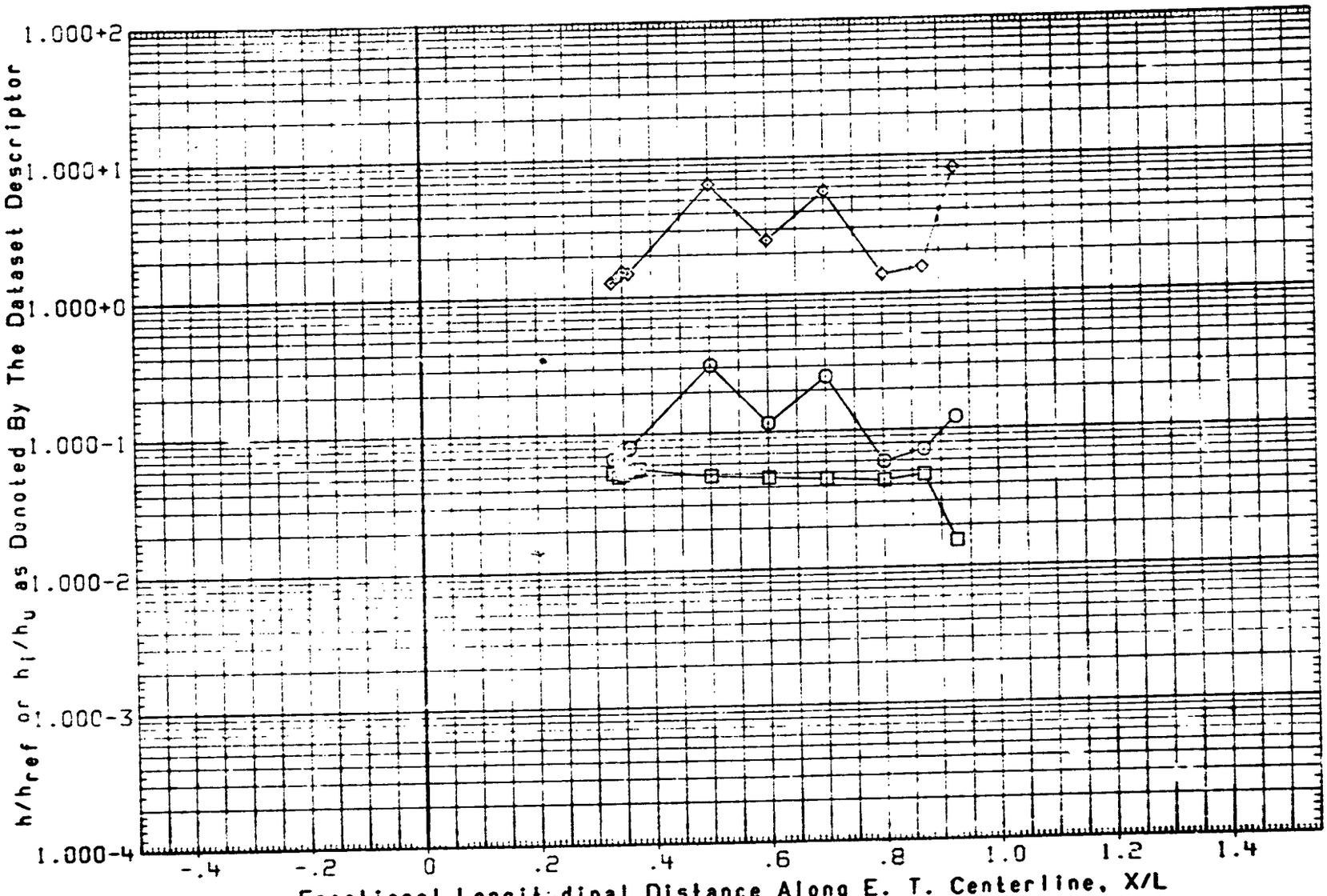
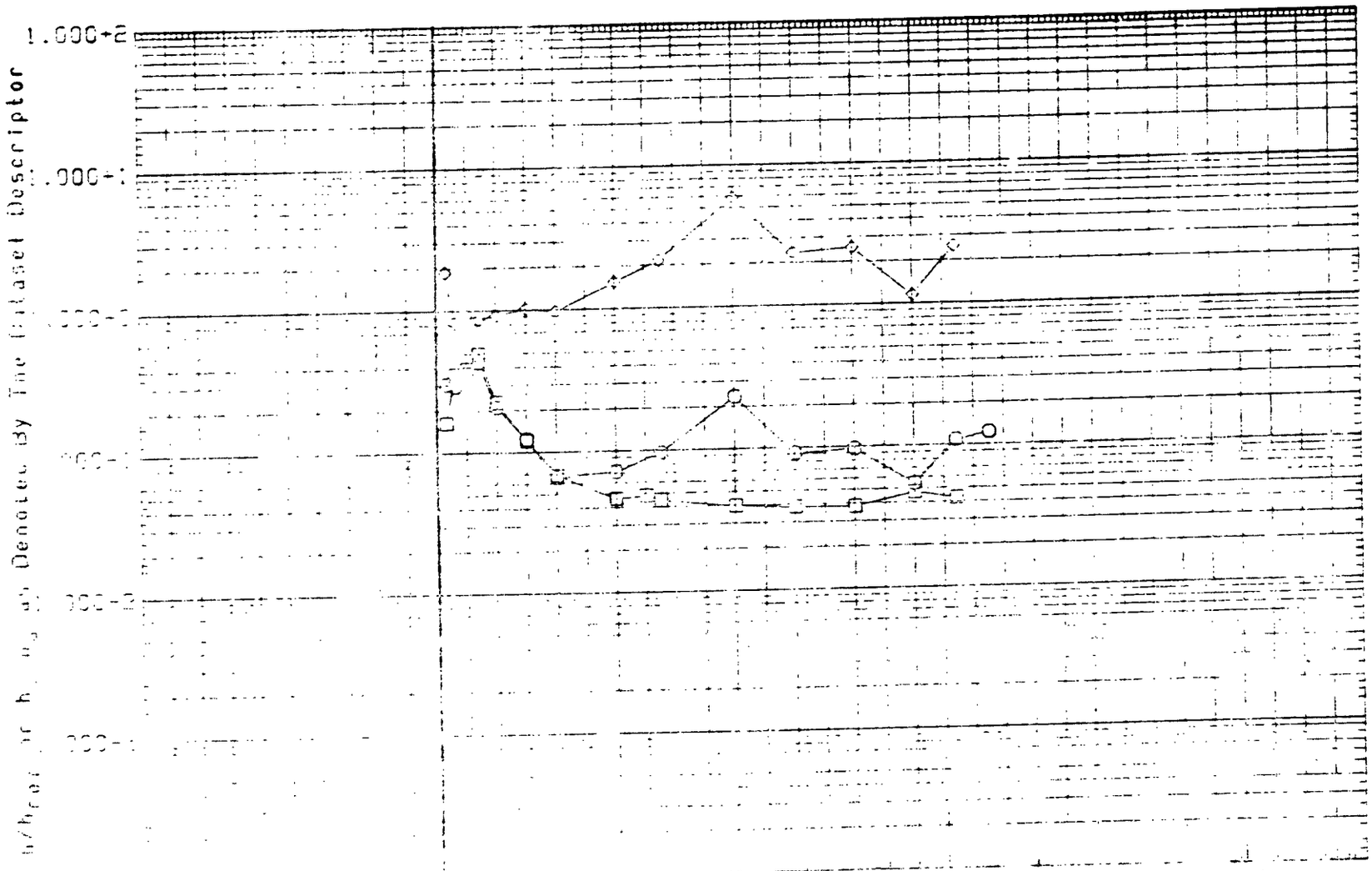


FIGURE 5. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 5, BETA= -3

MACH = 3.510 ALPHA = 5.000 PHI = 17.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F40)	○	(HN1(AEDC V41A-44A) O T S (CONFIG 2) TANK DATA	5.000	-3.000	5.000
(BV7F16)	□	(HN1(AEDC V41A-44A) TS NIPPLE NOSE ET	5.000	-3.000	5.000
(BV7F40)	◇	(HN1(AEDC V41A-44A) O T S / T (ET DATA) HI/HU	5.000	-3.000	5.000



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	PHI/L
[illegible]	DELTA	[illegible] AERO (ALPHA-BAR) O T S (CONFIG 2) TANK DATA	5.000	-3.000	5.000
[illegible]		[illegible] (ALPHA-BAR) T2 NIPPLE NOSE ET	5.000	-3.000	5.000
[illegible]		[illegible] (ALPHA-BAR) O T S / T (ET DATA) PHI/HU	5.000	-3.000	5.000

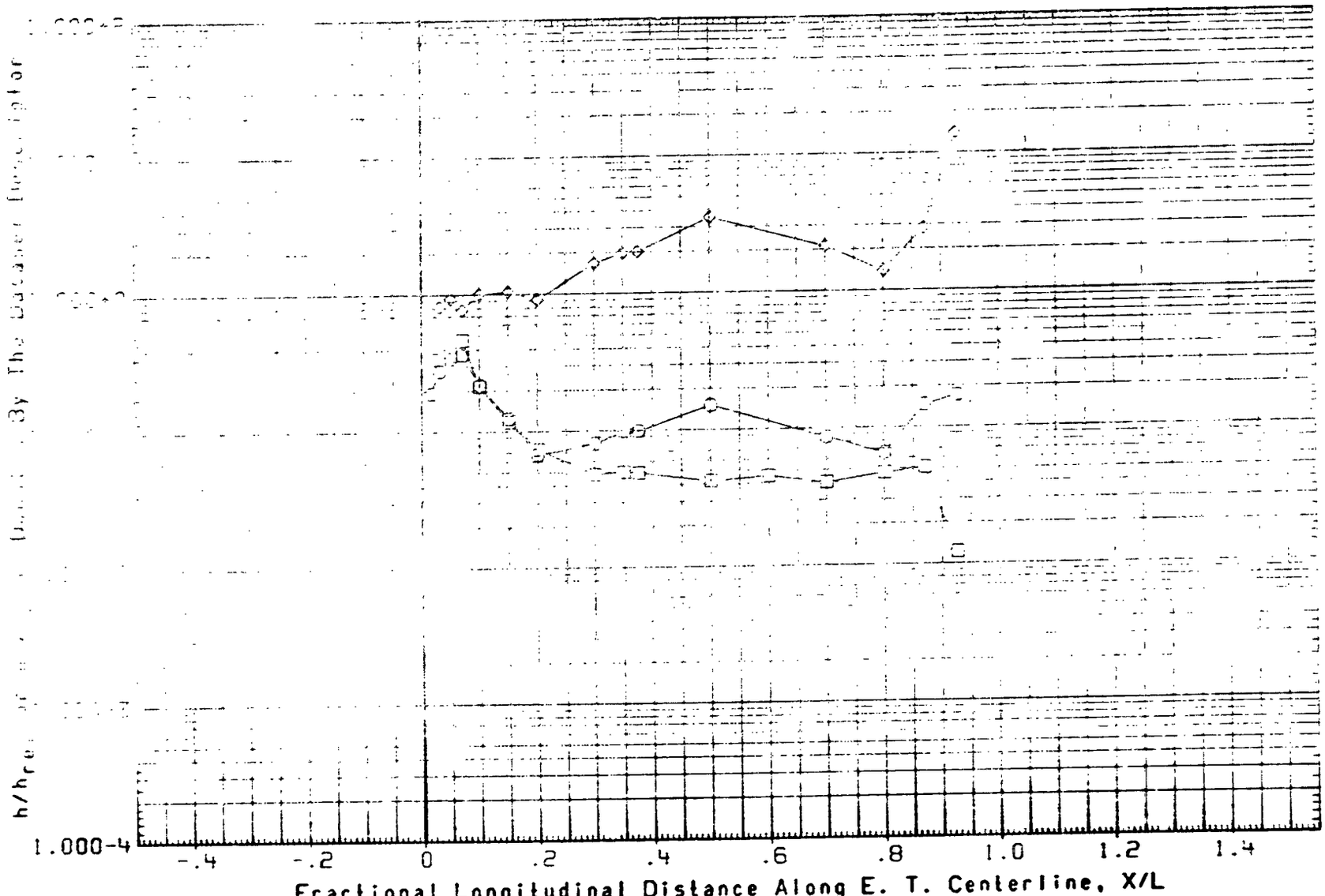
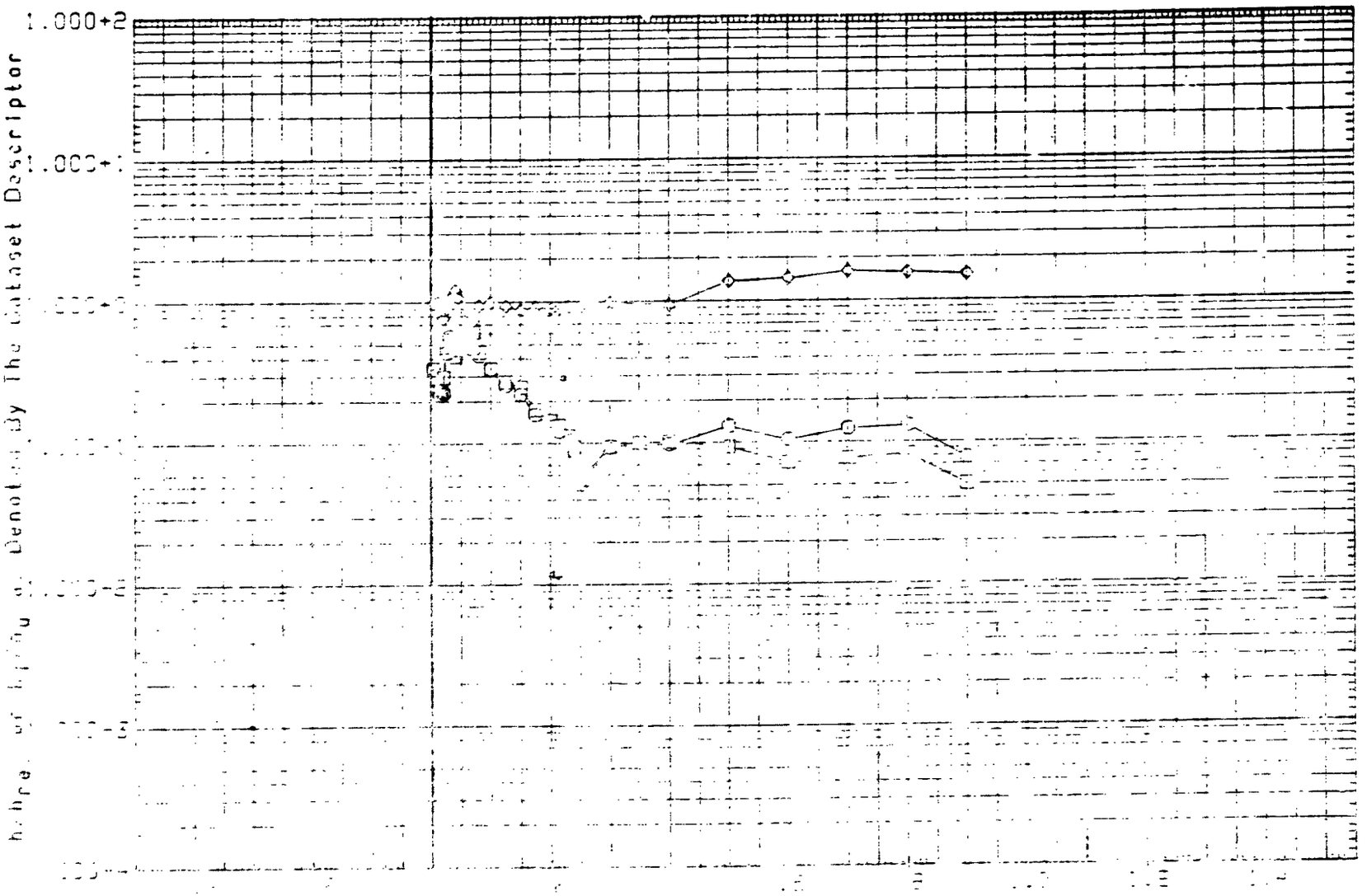


FIGURE 5. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 5, BETA= -3

MACH = 3.510 ALPHA = 5.000 PHI = 37.700

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F40)	○	(H41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	5.000	-3.000	5.000
(BV7F16)	□	(H41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	5.000	-3.000	5.000
(CV7F40)	◇	(H41(AEDC V41A-A4A) O T S / T (ET DATA) HI/HU	5.000	-3.000	5.000



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	PN/L
(B/TF+2)		H+1(AEDC V+1A-A+A) O.T.S. CONFIG 2. TANK DATA	5.000	-3.000	5.000
(B/TF16)		[H+1(AEDC V+1A-A+A) T2 A.PPLE NOSE ET	5.000	-3.000	5.000
(/TF+0)		[H+1(AEDC V+1A-A+A) O.T.S. T (ET DATA) HI/HU	5.000	-3.000	5.000

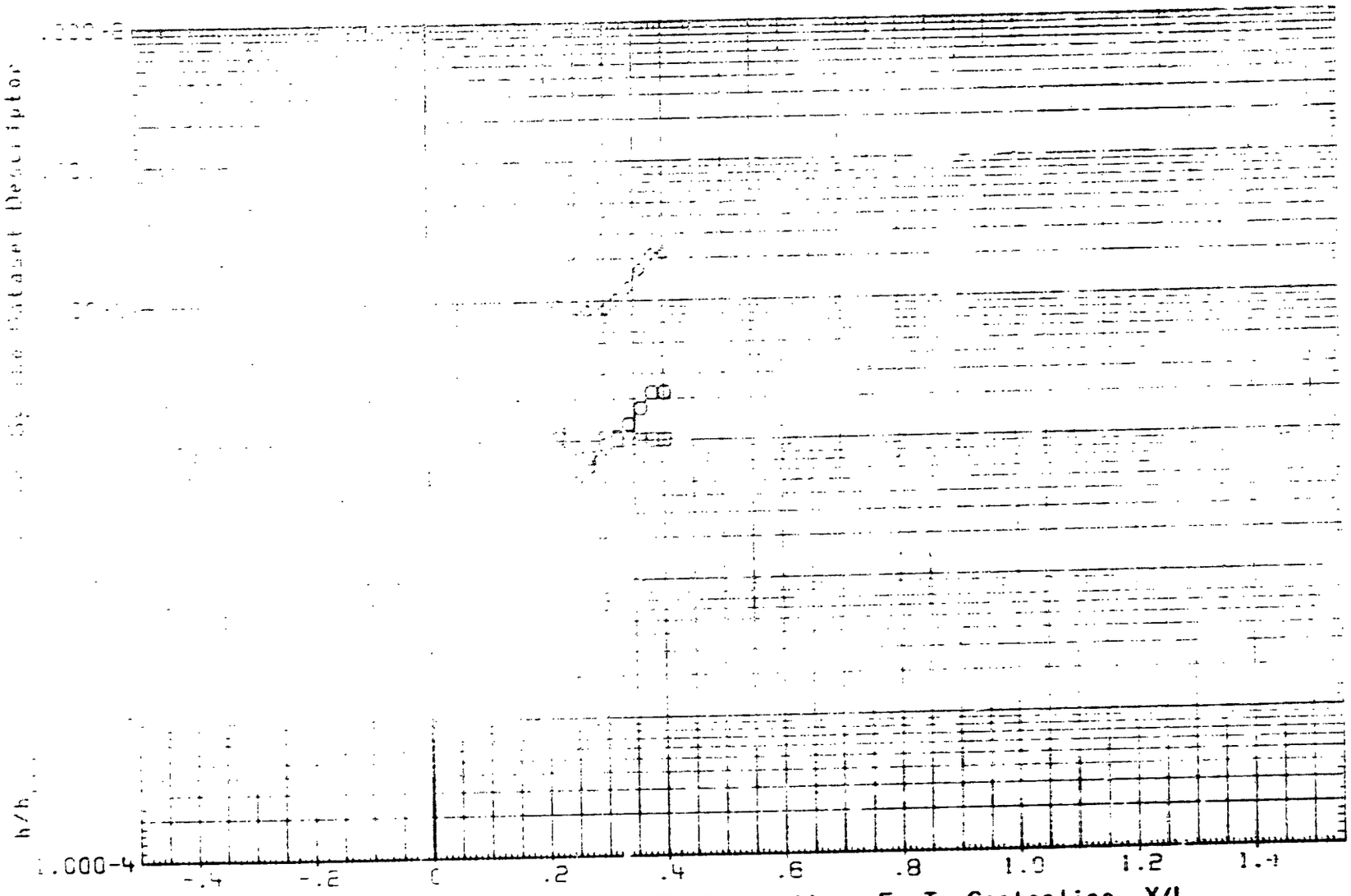
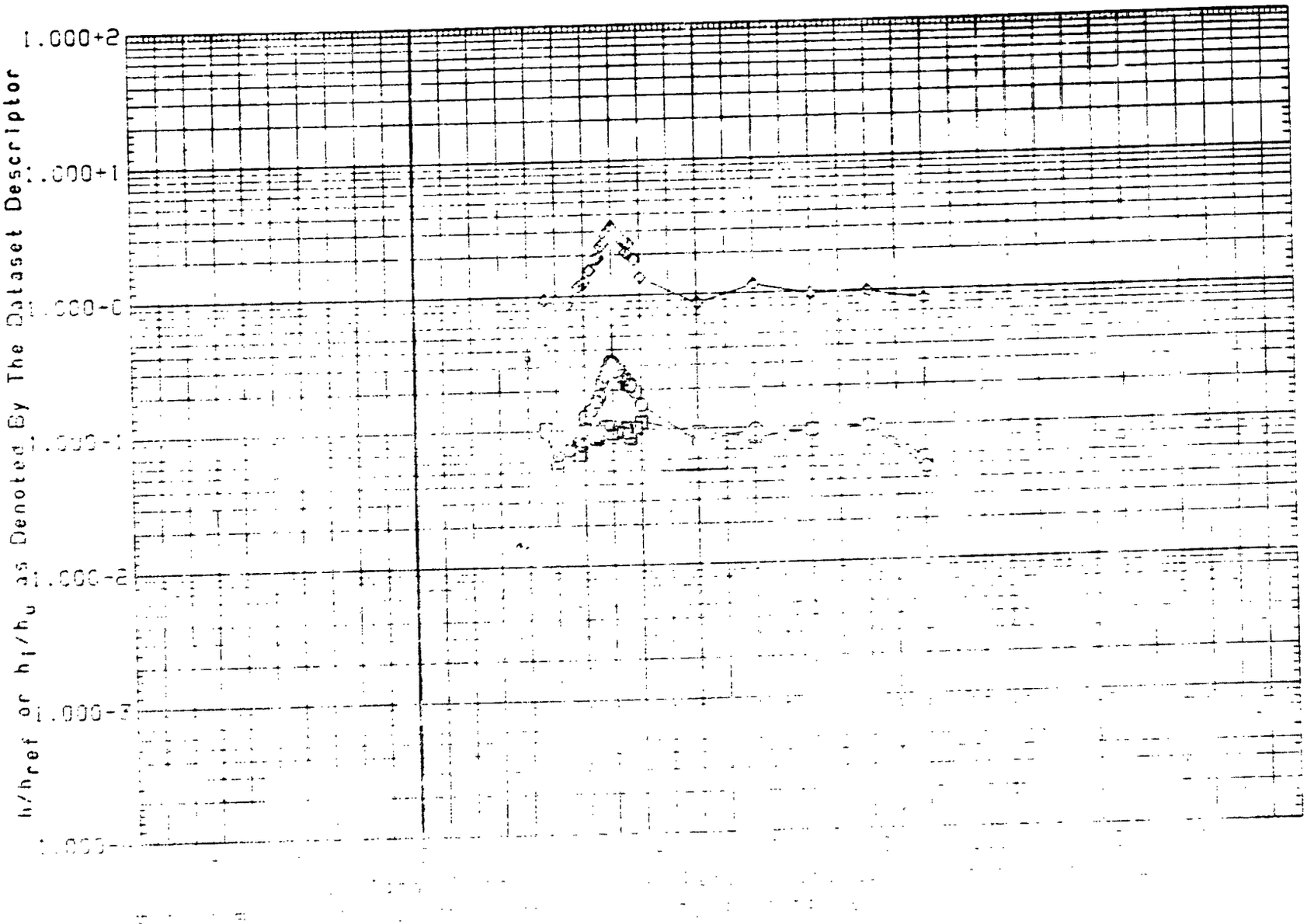


FIGURE 5. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 5. BETA= -3

MACH = 3.510 ALPHA = 5.000 PHI = 235.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F40)	○	IH+I(AEDC V+(A-A4A) O T S (CONFIG 2) TANK DATA	5.000	-3.000	5.000
(BV7F16)	□	IH+I(AEDC V+(A-A4A) T3 NIPPLE NOSE ET	5.000	-3.000	5.000
(JV7F40)	◇	IH+I(AEDC V+(A-A4A) O T S / T (ET DATA) HI/HU	5.000	-3.000	5.000



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F40)	○	IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	5.000	-3.000	5.000
(BV7F16)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	5.000	-3.000	5.000
(JV7F40)	◇	IH41(AEDC V41A-A4A) O T S / T (ET DATA) RT/HU	5.000	-3.000	5.000

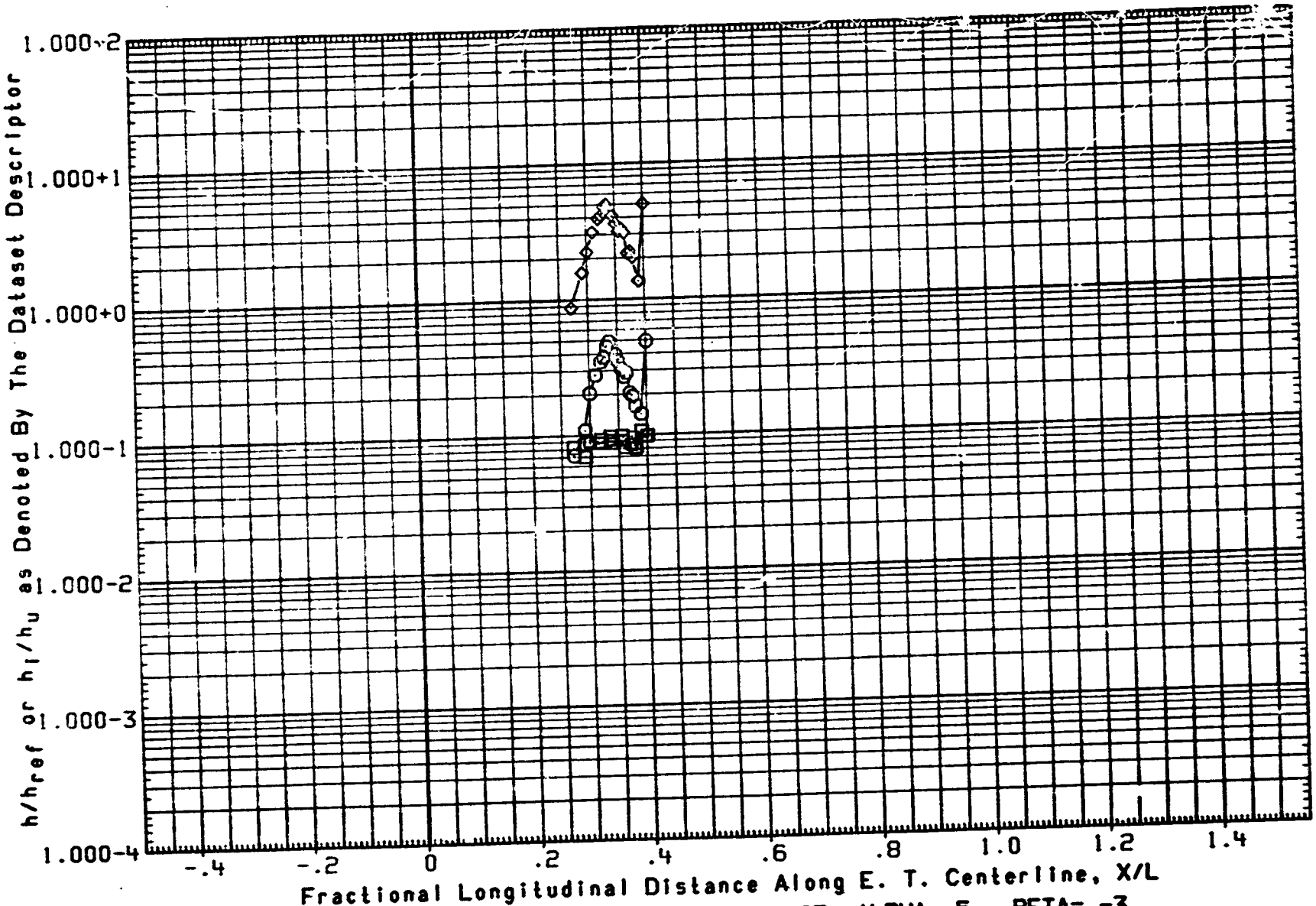


FIGURE 5. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 5, BETA= -3

MACH = 3.510 ALPHA = 5.000 PHI = 258.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F40)	○	IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	5.000	-3.000	5.000
(BV7F16)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	5.000	-3.000	5.000
(JV7F40)	◇	IH41(AEDC V41A-A4A) O T S / T (ET DATA) HI/HU	5.000	-3.000	5.000

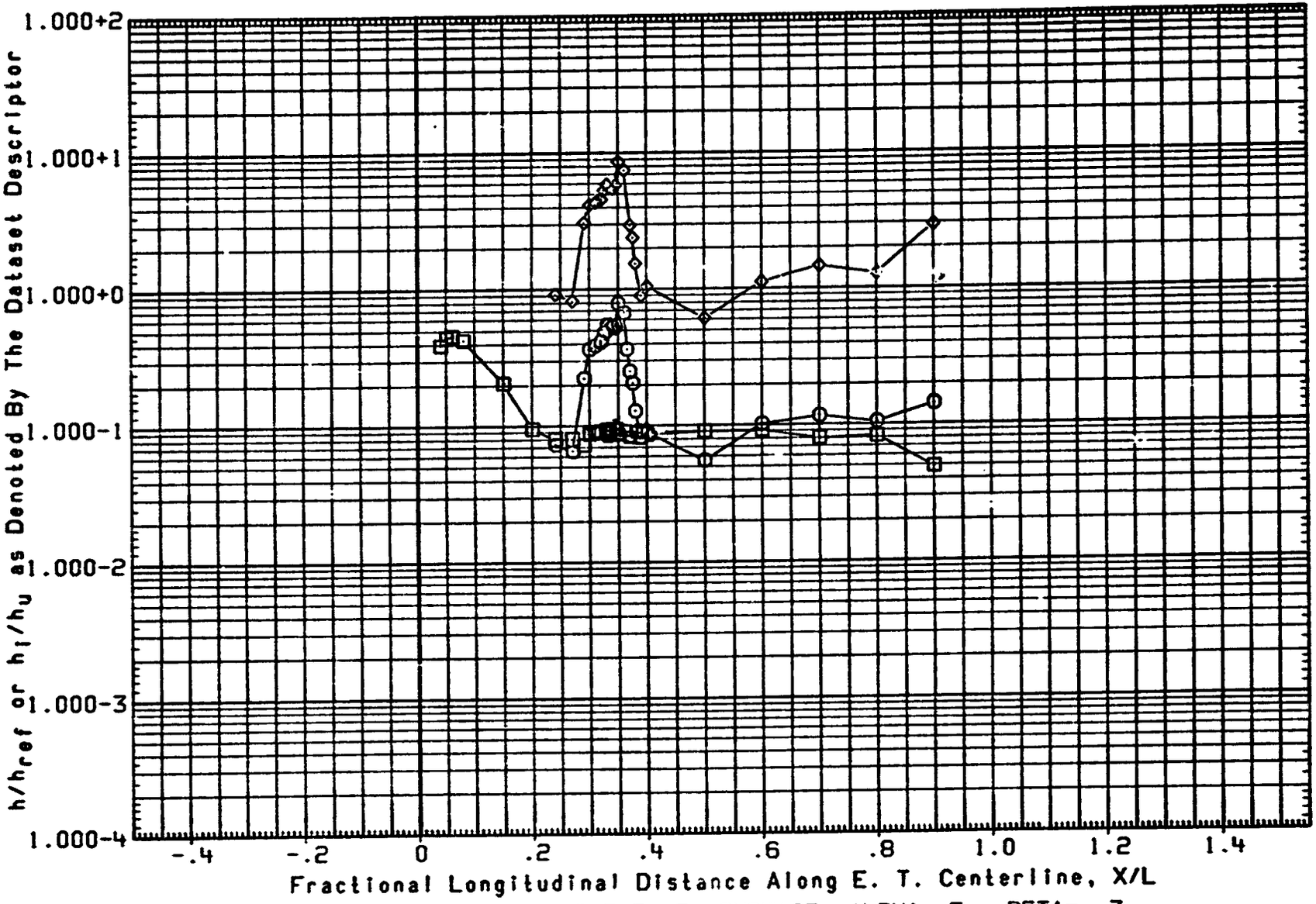


FIGURE 5. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 5, BETA= -3

MACH = 3.510 ALPHA = 5.000 PHI = 270.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F40)	○	IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	5.000	-3.000	5.000
(BV7F16)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	5.000	-3.000	5.000
(JV7F40)	◇	IH41(AEDC V41A-A4A) O T S / T (ET DATA) HI/HU	5.000	-3.000	5.000

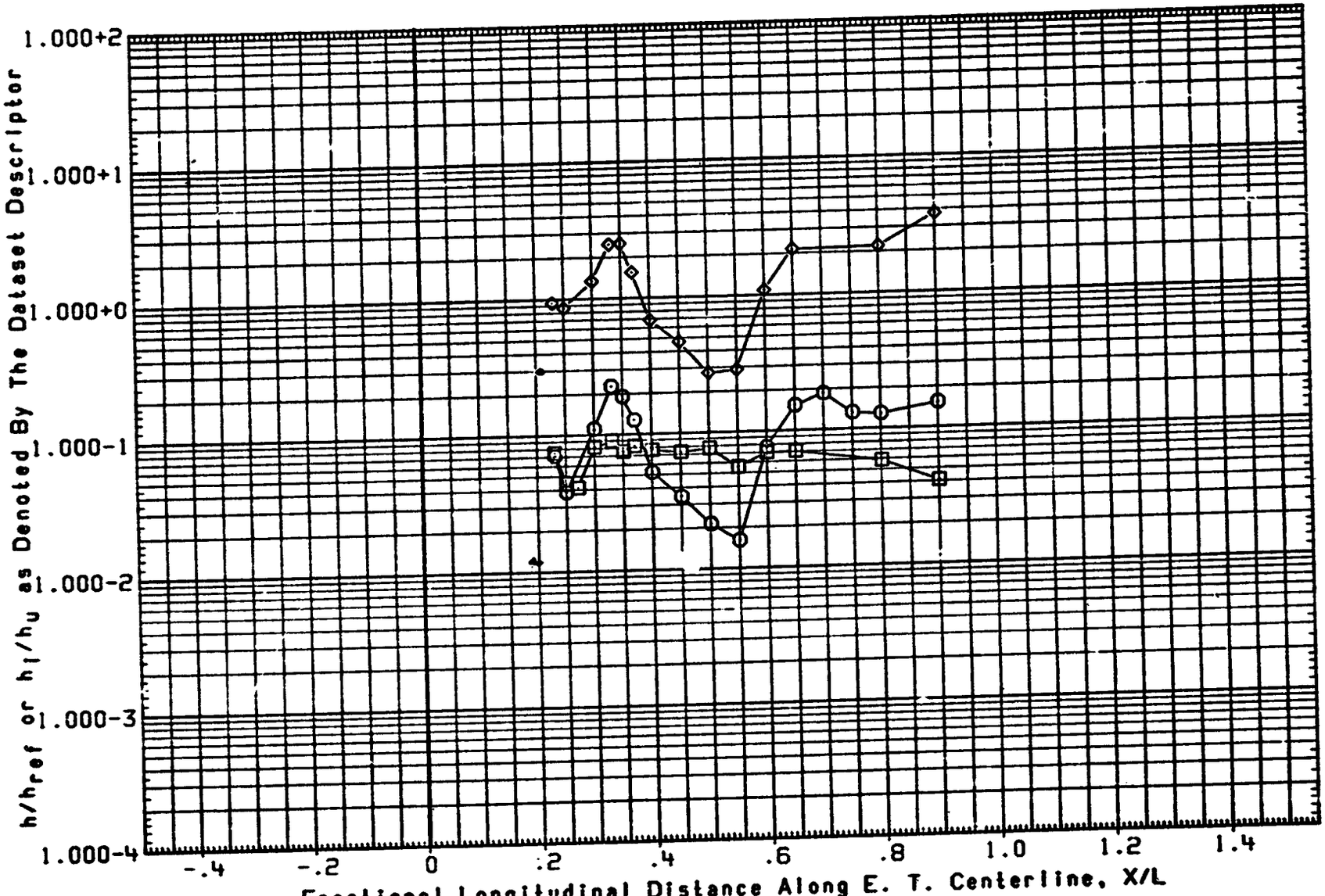


FIGURE 5. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 5, BETA= -3

MACH = 3.510 ALPHA = 5.000 PHI = 292.500

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F40)	○	IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	5.000	-3.000	5.000
(BV7F18)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	5.000	-3.000	5.000
(JV7F40)	◇	IH41(AEDC V41A-A4A) O T S / T (ET DATA) HI/HU	5.000	-3.000	5.000

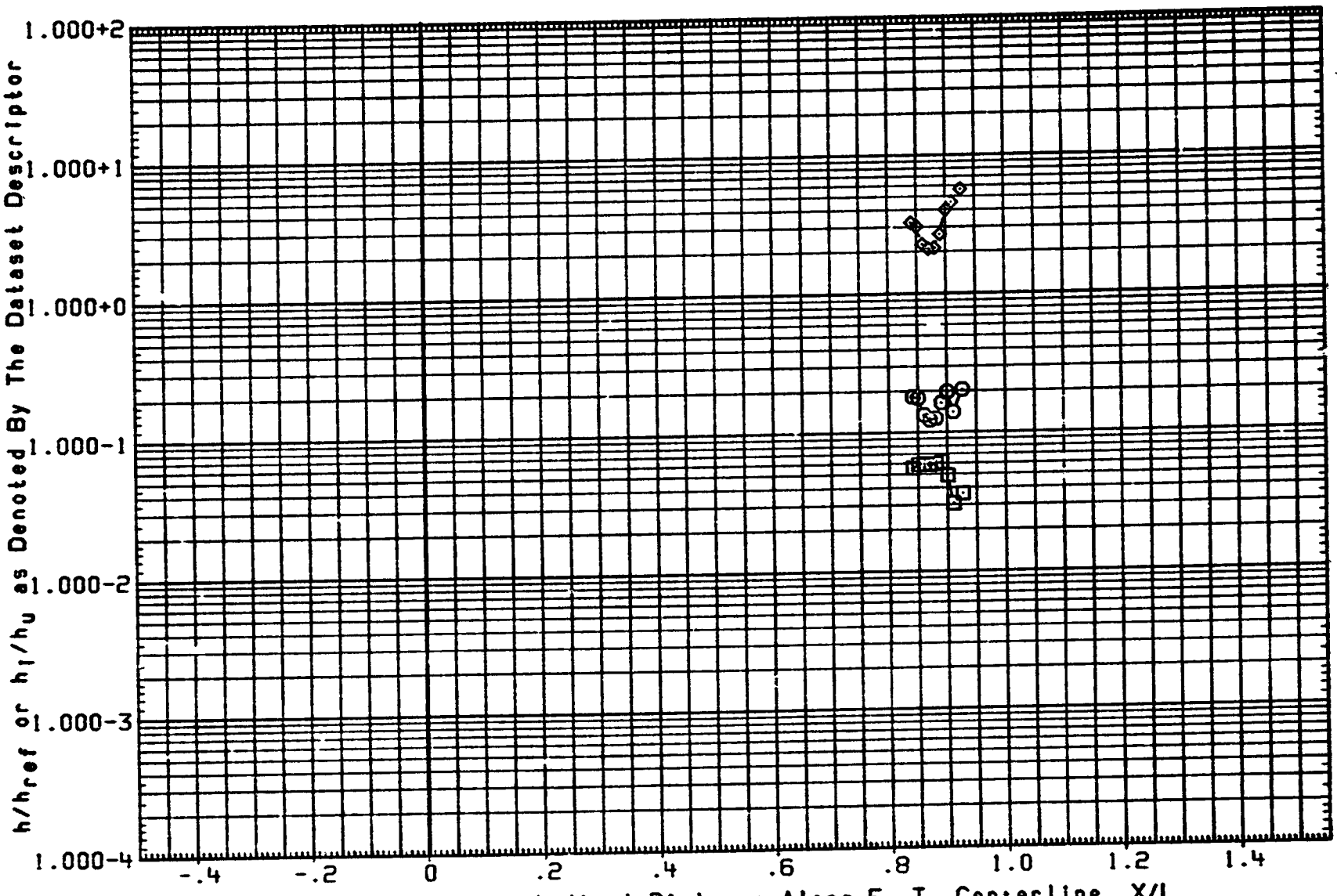


FIGURE 5. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 5, BETA= -3

MACH = 3.510 ALPHA = 5.000 PHI = 305.400

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F40)	○	IHNI(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	5.000	-3.000	5.000
(BV7F16)	□	IHNI(AEDC V41A-A4A) T3 NIPPLE NOSE ET	5.000	-3.000	5.000
(JV7F40)	◇	IHNI(AEDC V41A-A4A) O T S / T (ET DATA) HI/HU	5.000	-3.000	5.000

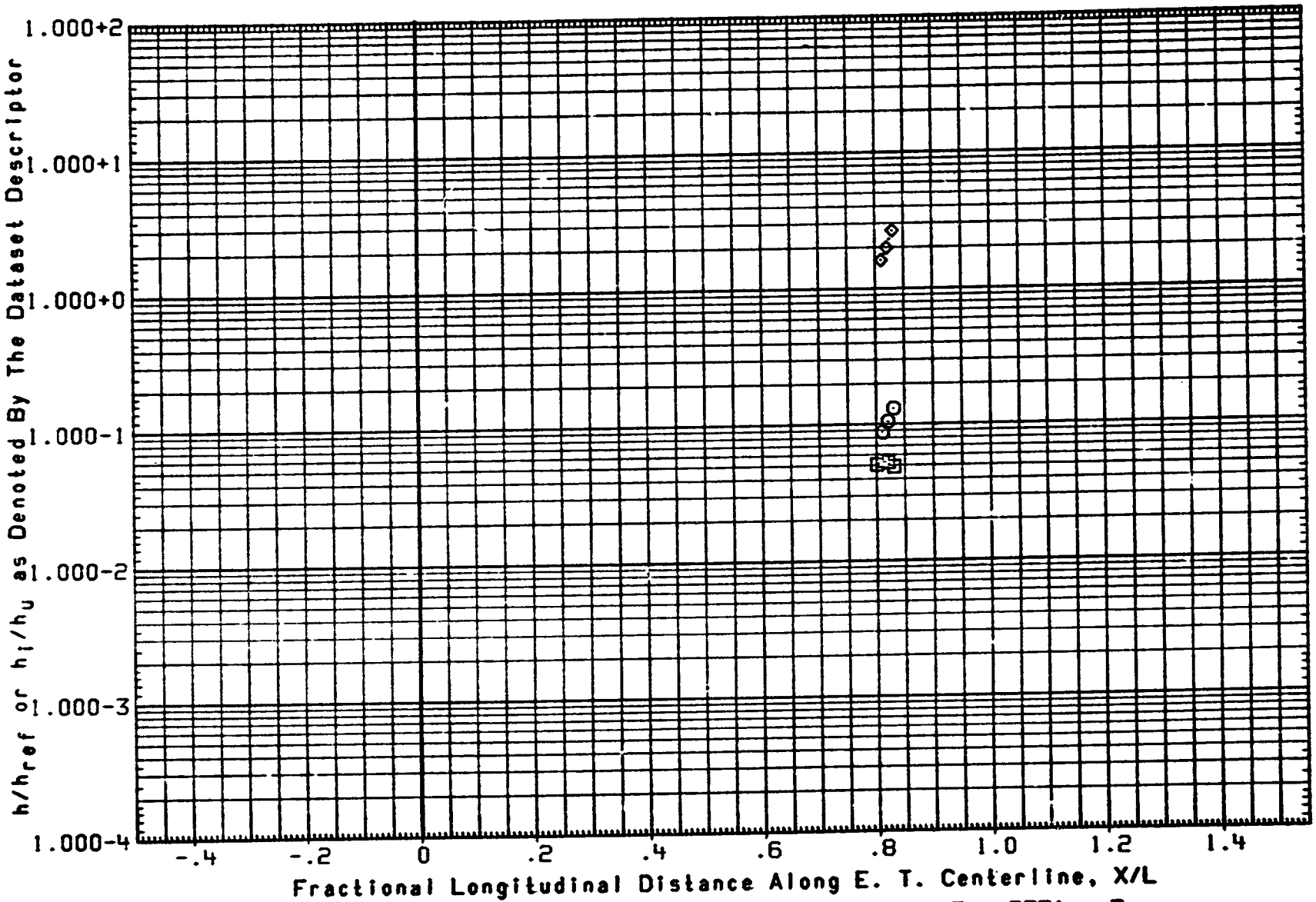


FIGURE 5. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 5, BETA= -3

MACH = 3.510 ALPHA = 5.000 PHI = 309.300

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F40)	○	IH+1(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	5.000	-3.000	5.000
(BV7F16)	□	IH+1(AEDC V41A-A4A) T3 NIPPLE NOSE ET	5.000	-3.000	5.000
(JV7F40)	◇	IH+1(AEDC V41A-A4A) O T S / T (ET DATA) HI/HU	5.000	-3.000	5.000

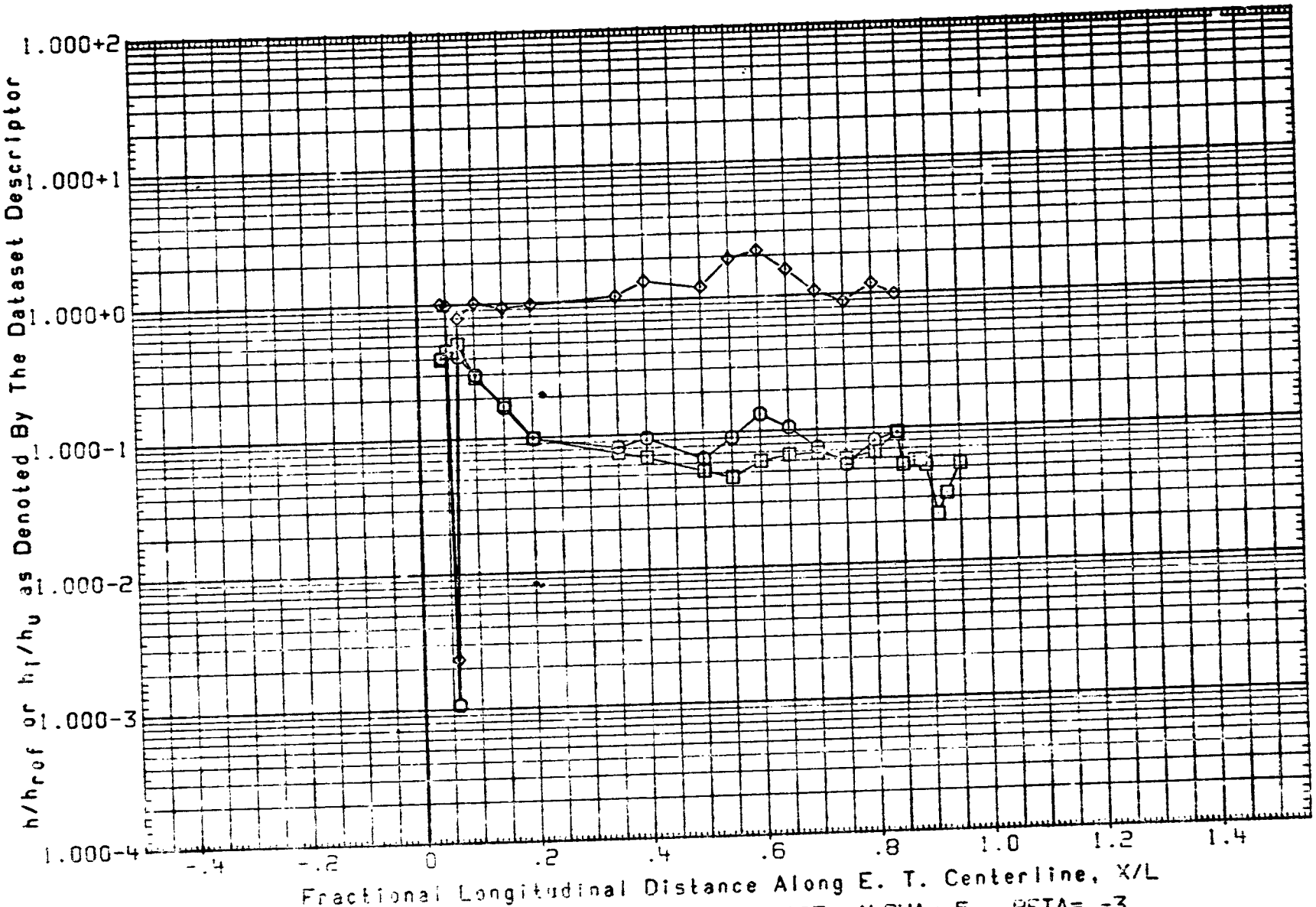


FIGURE 5. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 5, BETA= -3

MACH = 3.810 ALPHA = 5.000 PHI = 315.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(8V7F40)	○	DATA NOT AVAILABLE	5.000	-3.000	5.000
(8V7F16)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	5.000	-3.000	5.000
(JV7F40)	◇	DATA NOT AVAILABLE	5.000	-3.000	5.000

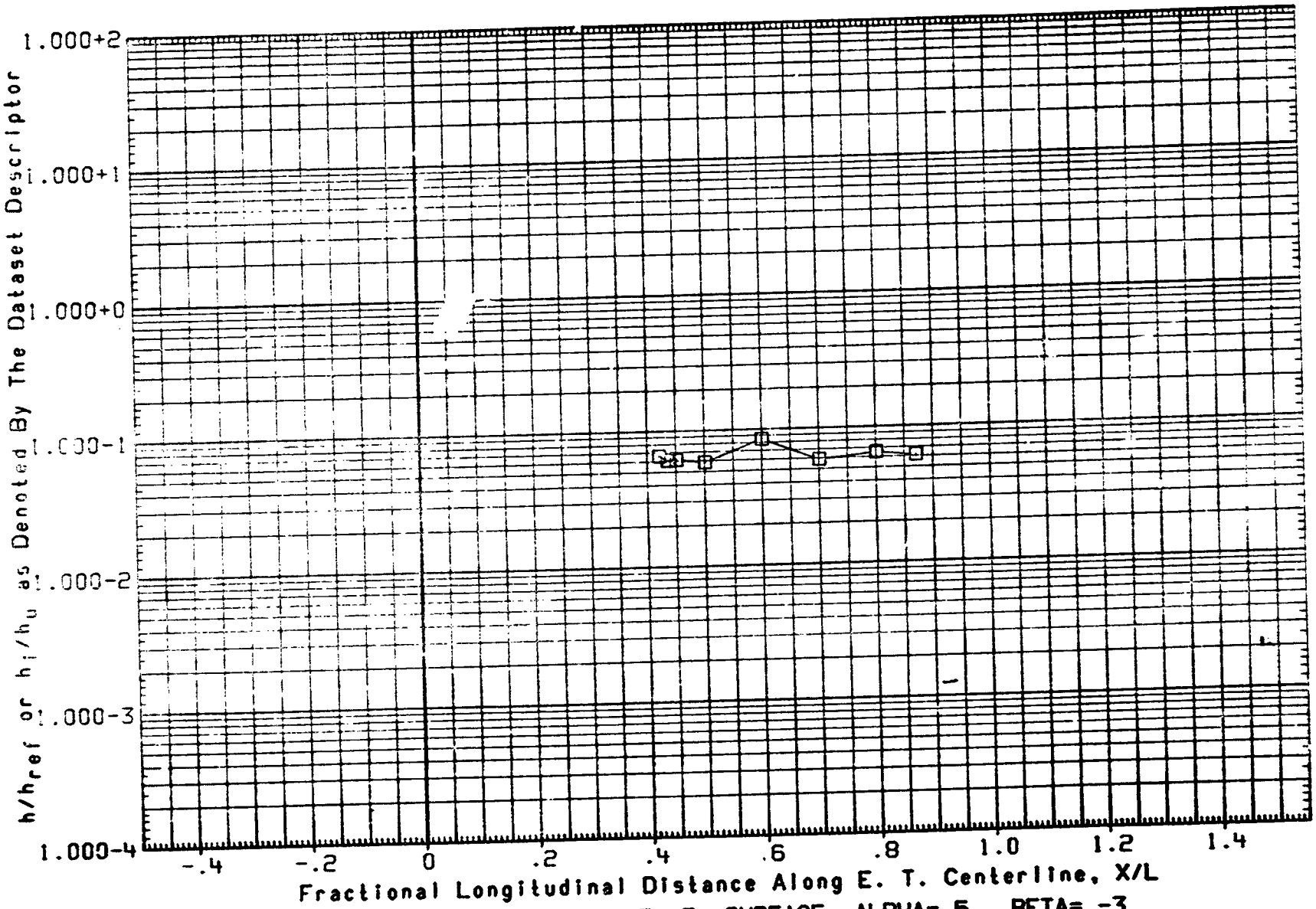


FIGURE 5. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 5, BETA= -3

MACH = 3.510 ALPHA = 5.000 PHI = 322.300

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F40)	○	DATA NOT AVAILABLE	5.000	-3.000	5.000
(BV7F16)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	5.000	-3.000	5.000
(JV7F40)	◇	DATA NOT AVAILABLE	5.000	-3.000	5.000

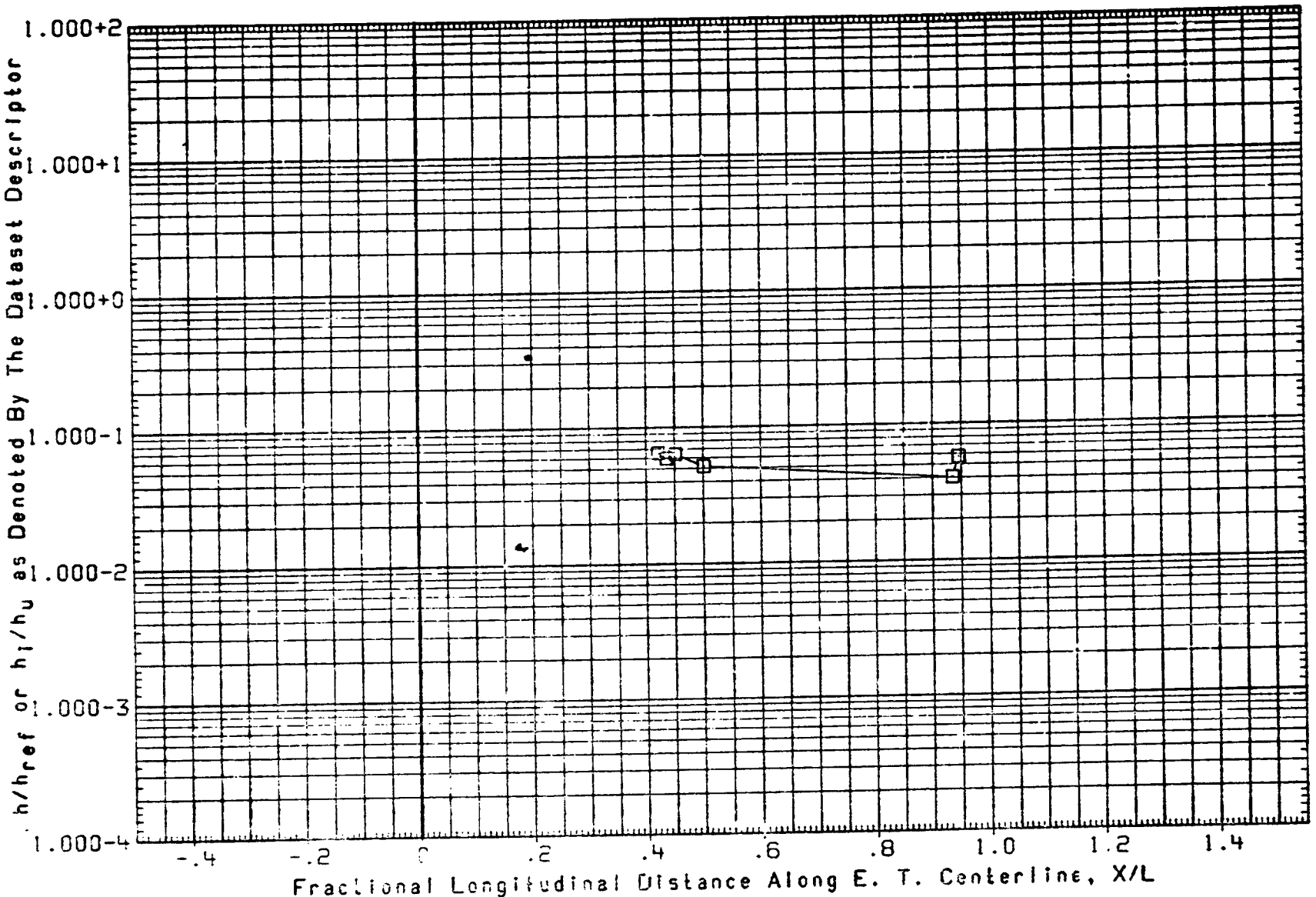


FIGURE 5. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 5, BETA= -3

MACH = 3.510 ALPHA = 5.000 PHI = 334.980

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F40)	○	DATA NOT AVAILABLE	5.000	-3.000	5.000
(BV7F16)	□	IH41(AEDC V41A-A1A) T3 NIPPLE NOSE ET	5.000	-3.000	5.000
(JV7F40)	◇	DATA NOT AVAILABLE	5.000	-3.000	5.000

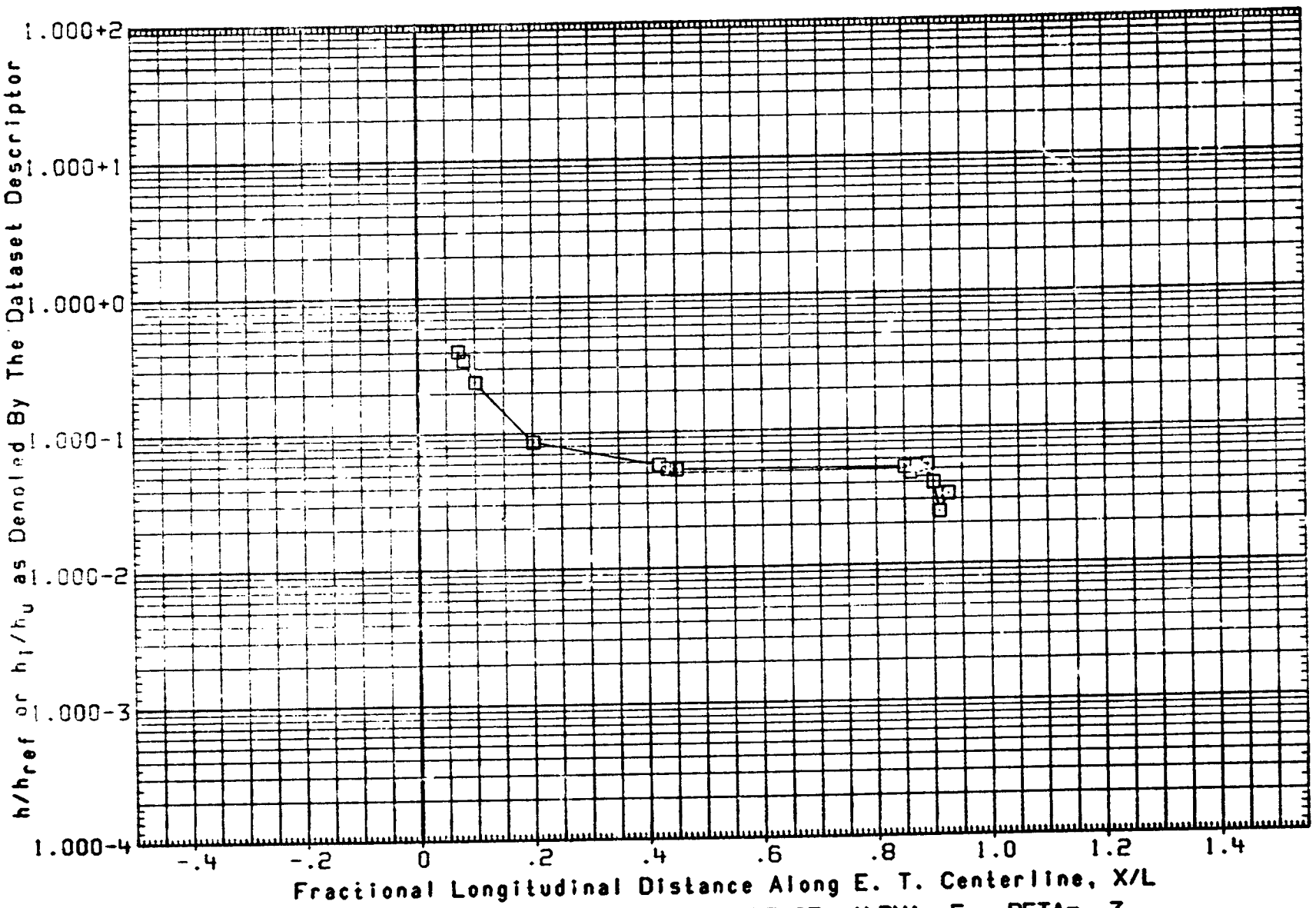


FIGURE 5. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 5, BETA= -3

MACH = 3.510 ALPHA = 5.000 PHI = 337.500

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F40)	○	DATA NOT AVAILABLE	5.000	-3.000	5.000
(BV7F16)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	5.000	-3.000	5.000
(JV7F40)	◇	DATA NOT AVAILABLE	5.000	-3.000	5.000

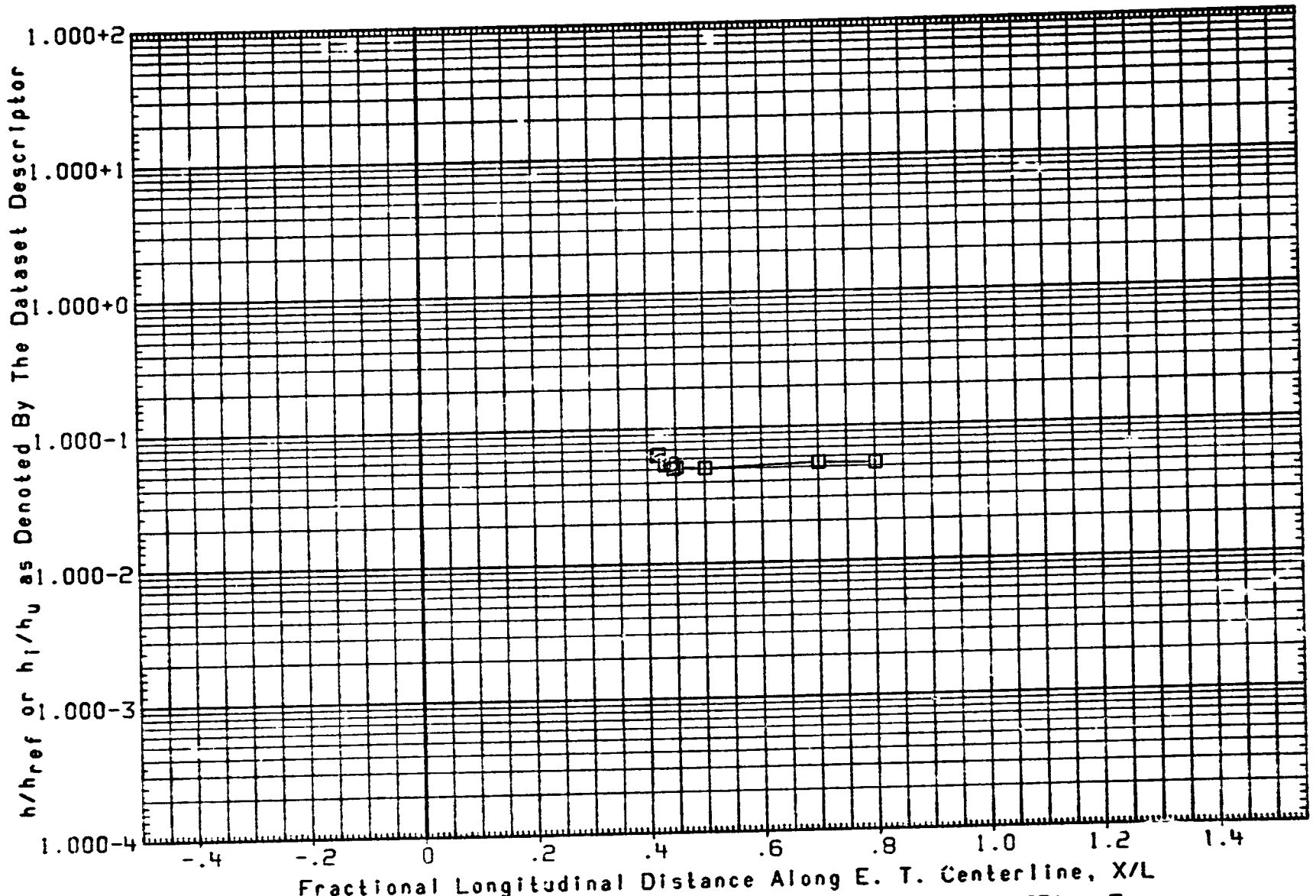


FIGURE 5. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 5, BETA= -3

MACH = 3.510 ALPHA = 5.000 PHI = 343.120

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F40)	○	DATA NOT AVAILABLE	5.000	-3.000	5.000
(BV7F16)	□	IH41(AEDC V41A-44A) T3 NIPPLE NOSE ET	5.000	-3.000	5.000
(JV7F40)	◇	DATA NOT AVAILABLE	5.000	-3.000	5.000

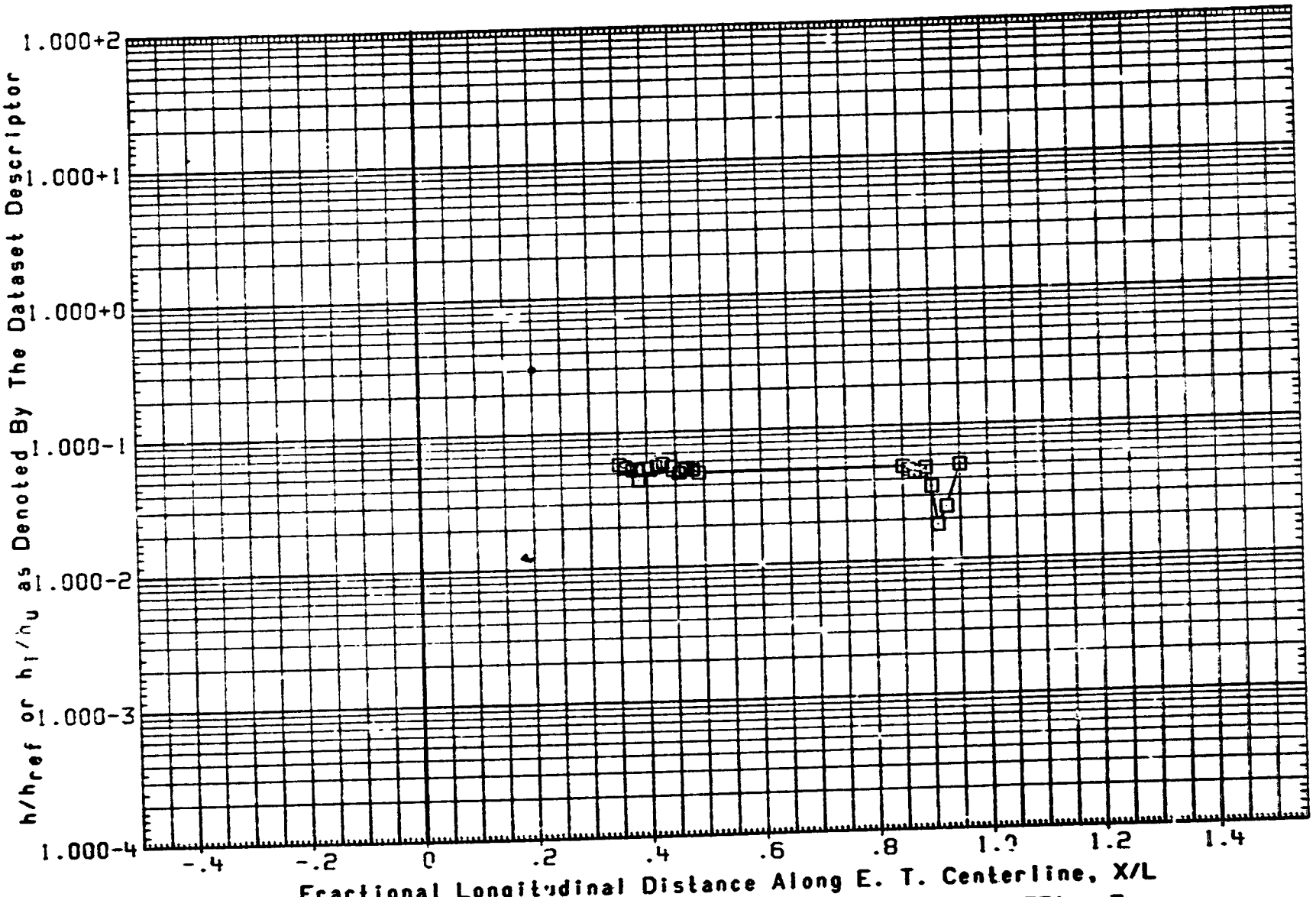


FIGURE 5. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 5, BETA= -3

MACH = 3.510 ALPHA = 5.000 PHI = 348.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F41)	○	IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	5.000	-6.000	5.000
(BV7F17)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	5.000	-6.000	5.000
(JV7F41)	◇	IH41(AEDC V41A-A4A) O T S / T (ET DATA) HI/HU	5.000	-6.000	5.000

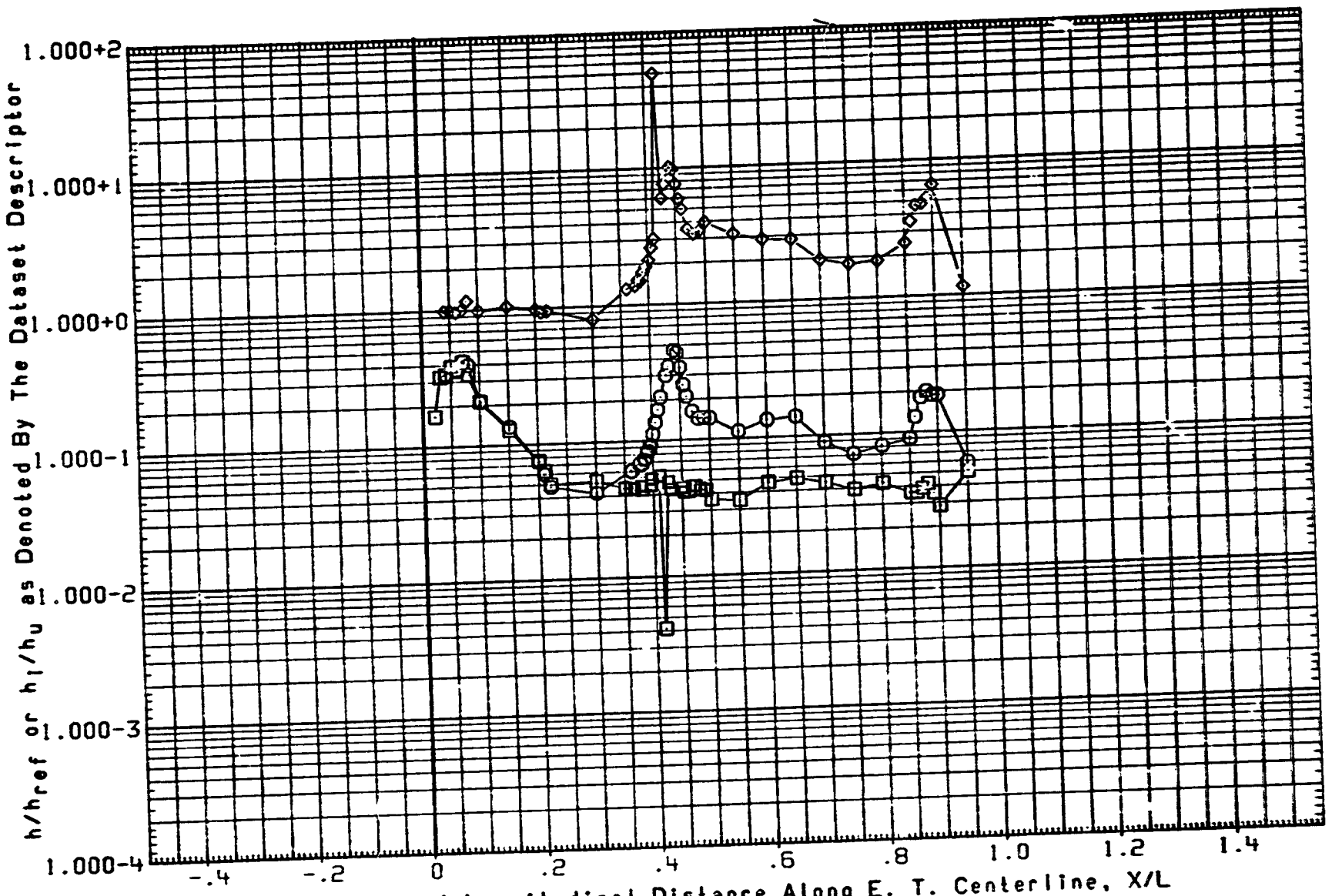


FIGURE 6. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 5, BETA= -6

MACH = 3.510 ALPHA = 5.000 PHI = .000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F41)	○	(HH1(AEDC V41A-A4A) 0 T S (CONFIG 2) TANK DATA	5.000	-6.000	5.000
(BV7F17)	□	(HH1(AEDC V41A-A4A) T3 NIPPLE NOSE ET	5.000	-6.000	5.000
(JV7F41)	◇	(HH1(AEDC V41A-A4A) 0 T S / T (E; DATA) HI/HU	5.000	-6.000	5.000

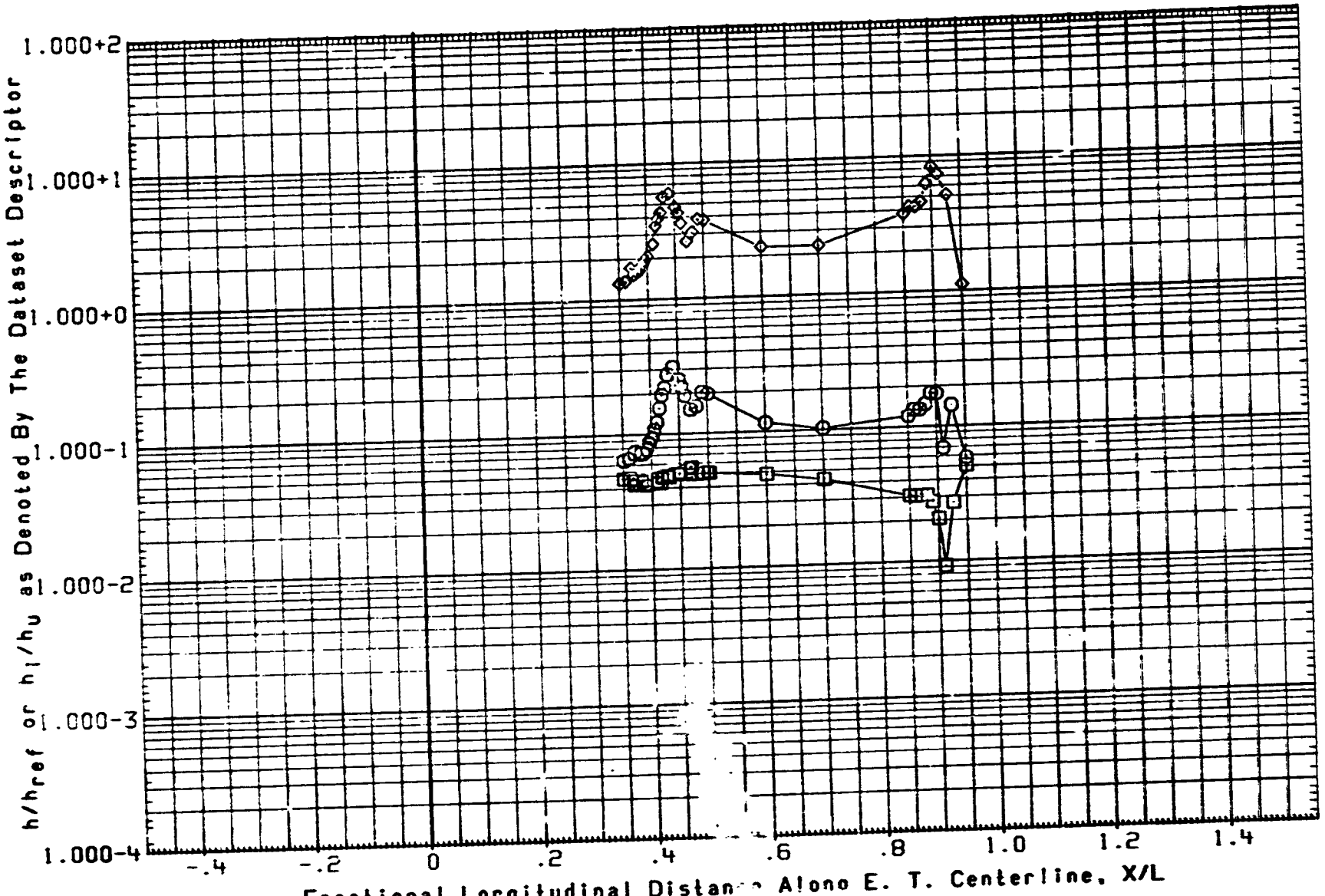


FIGURE 6. HEAT TRANSFER ALONG THE E. T. ..RFACE, ALPHA= 5, BETA= -6

M'CH = 3.510 ALPHA = 5.000 PHI = 11.2

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F41)	○	IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	5.000	-6.000	5.000
(BV7F17)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	5.000	-6.000	5.000
(JV7F41)	◇	IH41(AEDC V41A-A4A) O T S / T (ET DATA) HI/HU	5 000	-6.000	5.000

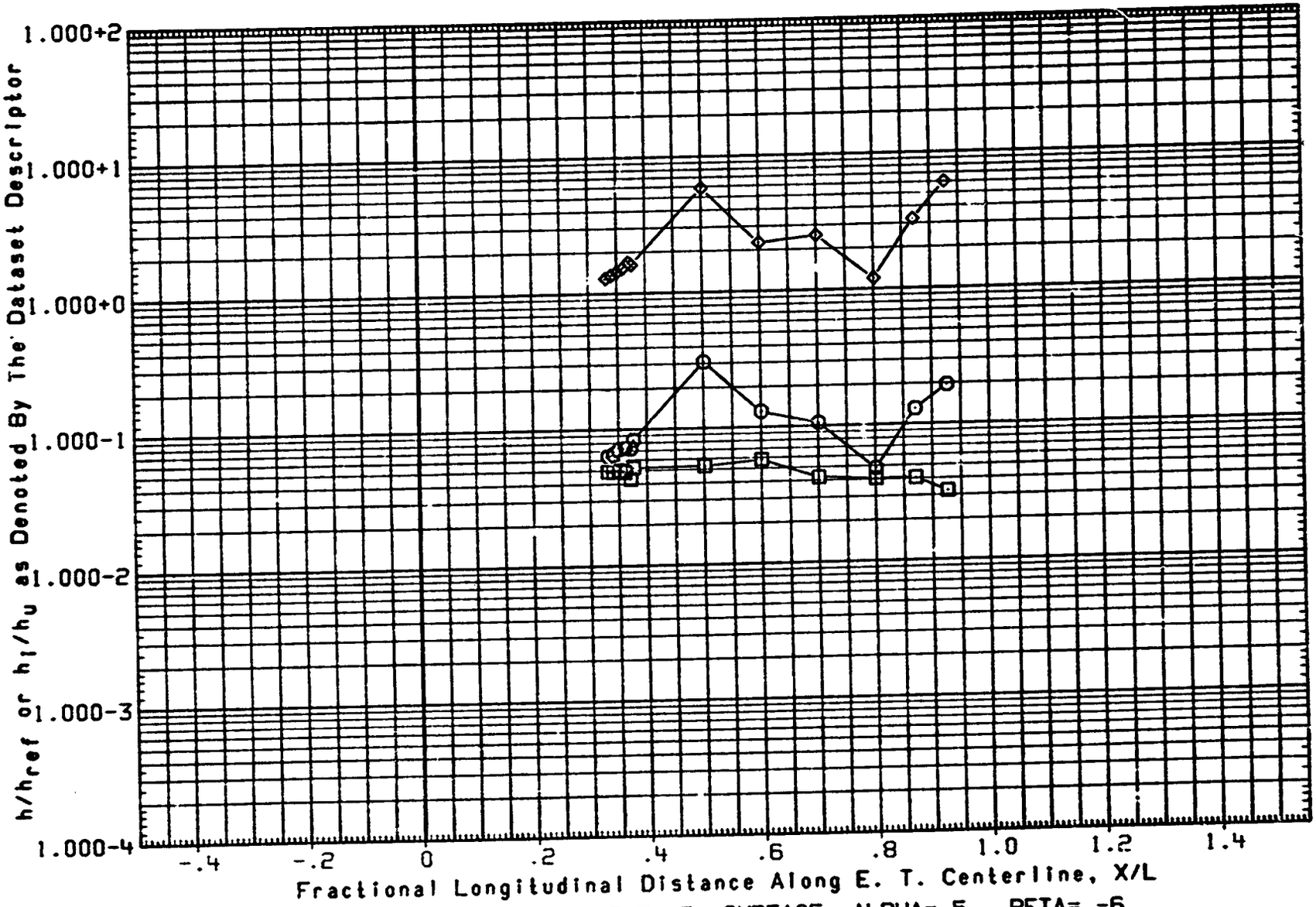


FIGURE 6. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 5, BETA= -6

MACH = 3.510 ALPHA = 5.000 PHI = 17.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F41)	○	IH+1(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	5.000	-6.000	5.000
(BV7F17)	□	IH+1(AEDC V41A-A4A) T3 NIPPLE NOSE ET	5.000	-6.000	5.000
(JV7F41)	◇	IH+1(AEDC V41A-A4A) O T S / T (ET DATA) HI/HU	5.000	-6.000	5.000

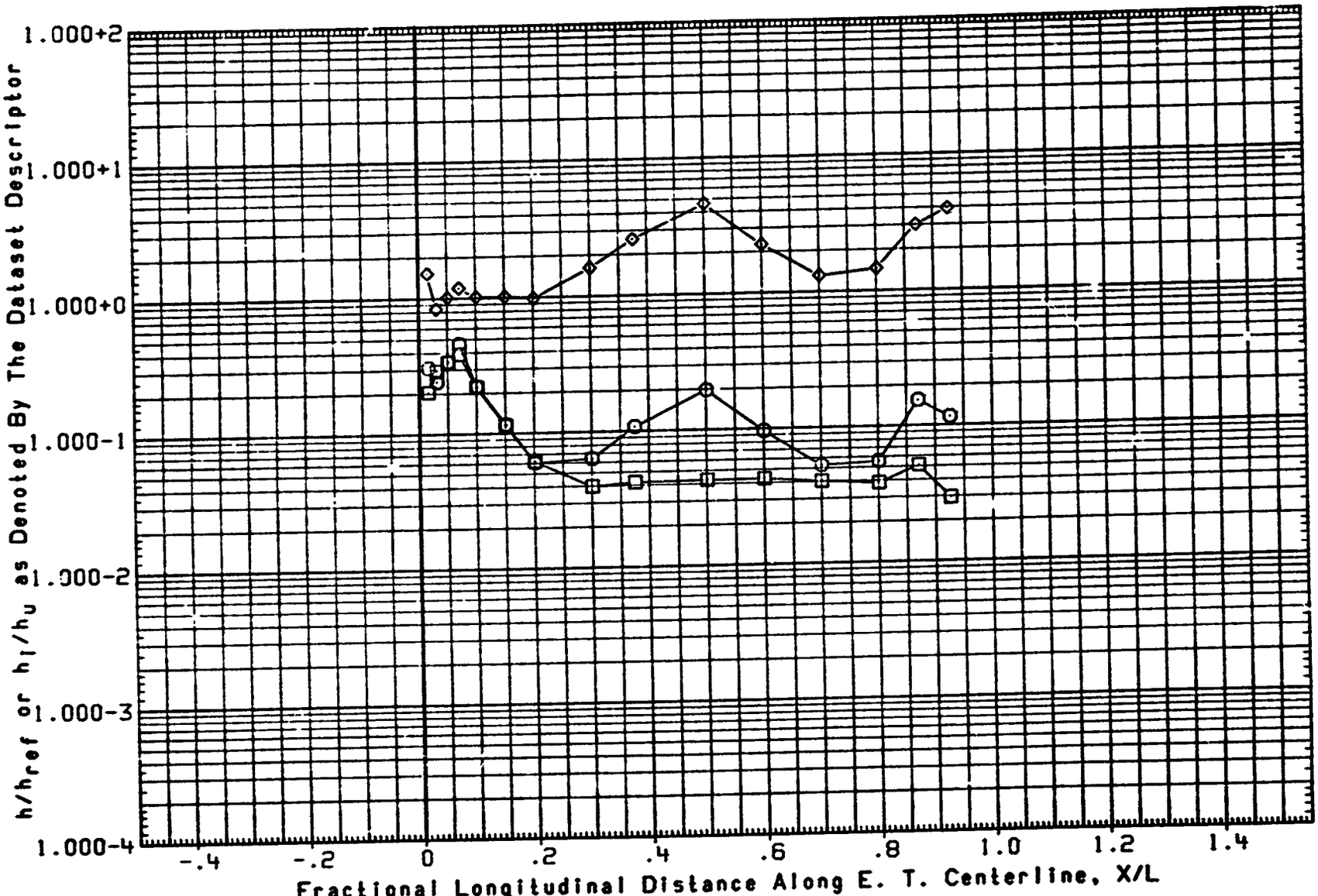


FIGURE 6. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 5, BETA= -6

MACH = 3.510 ALPHA = 5.000 PHI = 29.800

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F41)	○	IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	5.000	-6.000	5.000
(BV7F17)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	5.000	-6.000	5.000
(JV7F41)	◇	IH41(AEDC V41A-A4A) O T S / T (ET DATA) HI/HU	5.000	-6.000	5.000

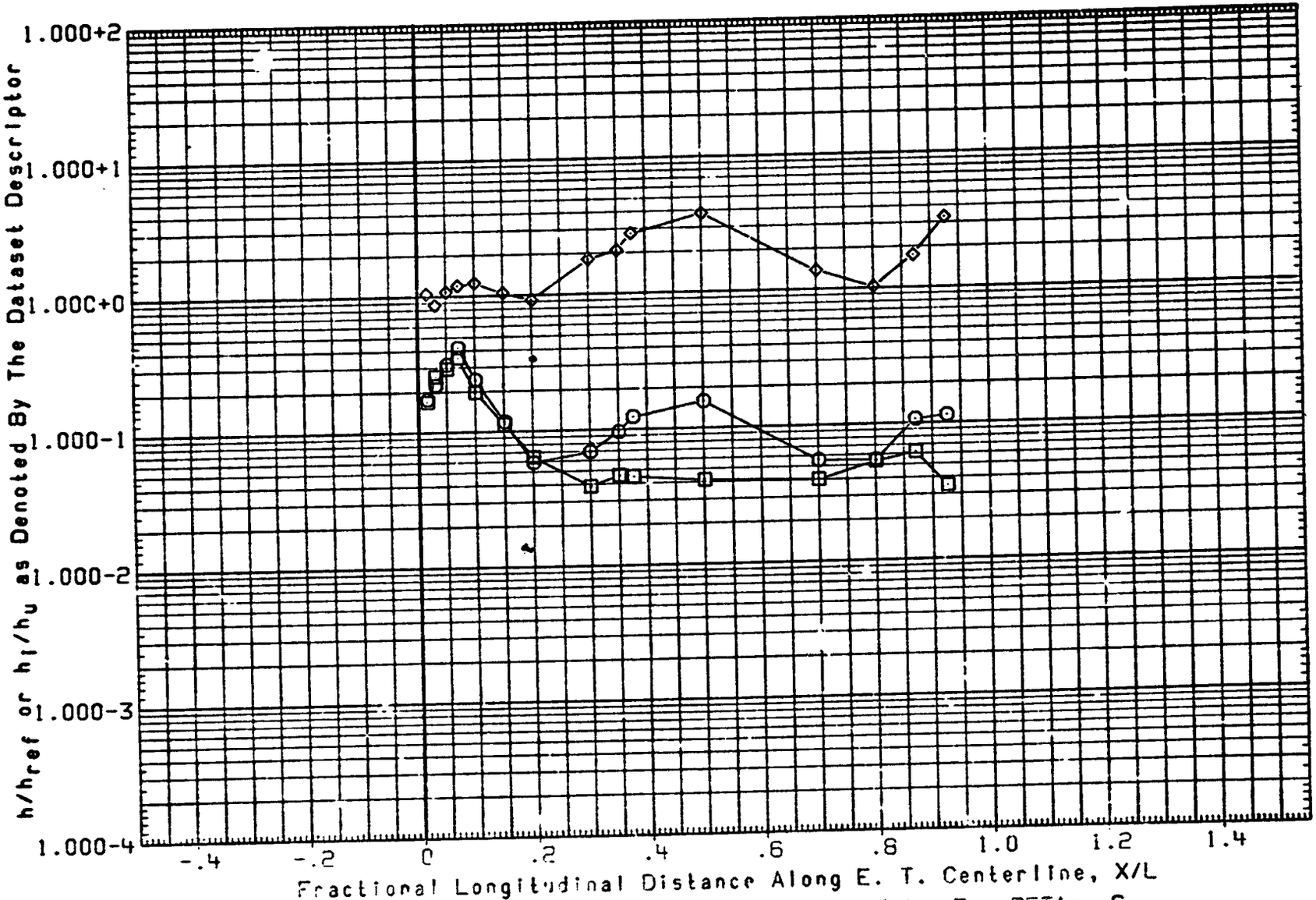


FIGURE 6. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 5, BETA= -6

MACH = 3.510 ALPHA = 5.000 PHI = 37.700

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F41)	○	IH+1(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	5.000	-6.000	5.000
(BV7F17)	□	IH+1(AEDC V41A-A4A) T3 NIPPLE NOSE ET	5.000	-6.000	5.000
(JV7F41)	◇	IH+1(AEDC V41A-A4A) O T S / T (ET DATA) HI/HU	5.000	-6.000	5.000

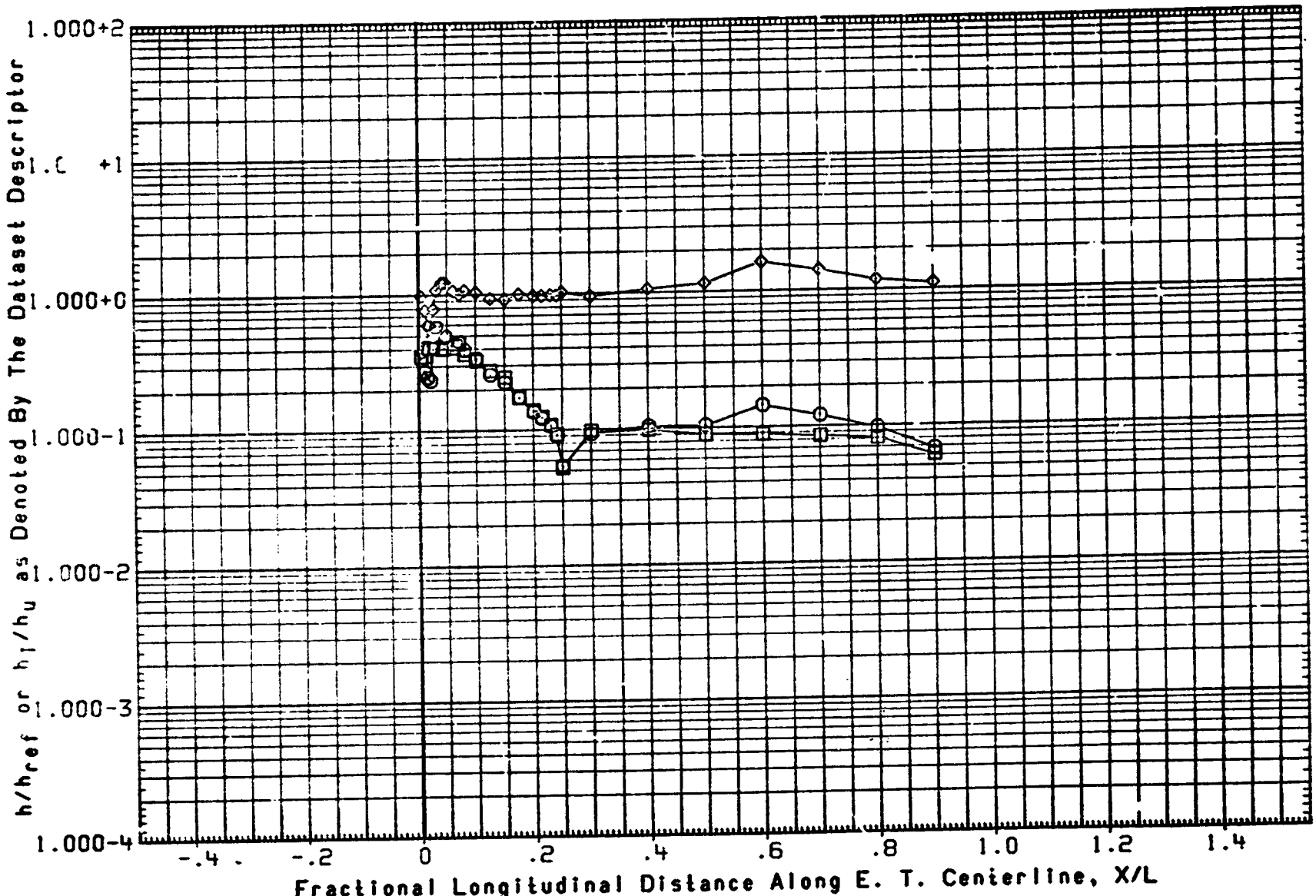


FIGURE 6. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 5, BETA= -6

MACH = 3.510 ALPHA = 5.000 PHI = 180.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F41)	○	IHN1(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	5.000	-6.000	5.000
(BV7F17)	□	IHN1(AEDC V41A-A4A) T3 NIPPLE NOSE ET	5.000	-6.000	5.000
(JV7F41)	◇	IHN1(AEDC V41A-A4A) O T S / T (ET DATA) HI/HU	5.000	-6.000	5.000

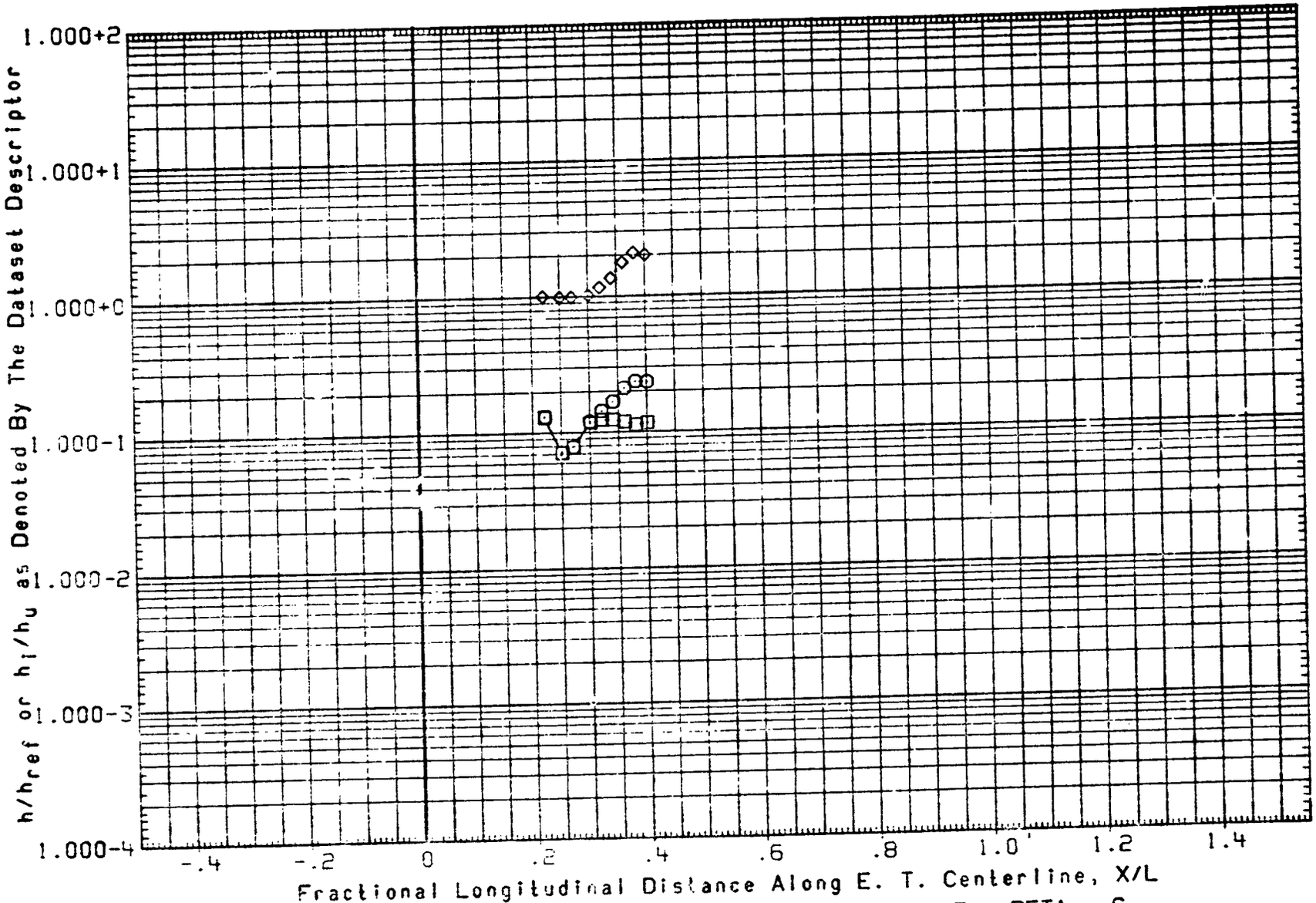


FIGURE 6. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 5, BETA= -6

MACH = 3.510 ALPHA = 5.000 PHI = 235.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F41)	○	IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	5.000	-6.000	5.000
(BV7F17)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	5.000	-6.000	5.000
(JV7F41)	◇	IH41(AEDC V41A-A4A) O T S / T (ET DATA) HI/HU	5.000	-6.000	5.000

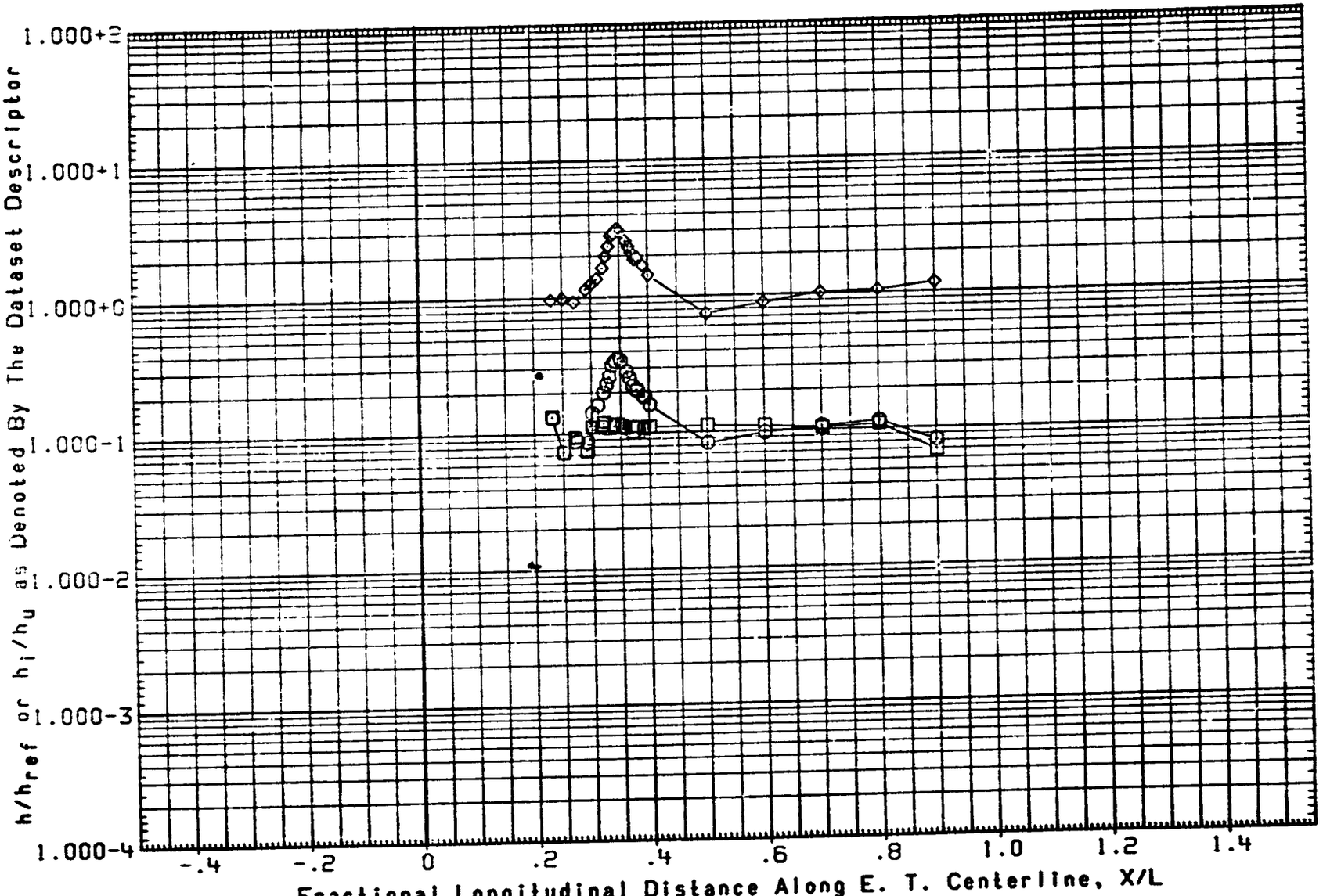


FIGURE 6. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 5, BETA= -6

MACH = 3.510 ALPHA = 5.000 PHI = 247.500

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F41)	○	IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	5.000	-6.000	5.000
(BV7F17)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	5.000	-6.000	5.000
(JV7F41)	◇	IH41(AEDC V41A-A4A) O T S / T (ET DATA) HI/HU	5.000	-6.000	5.000

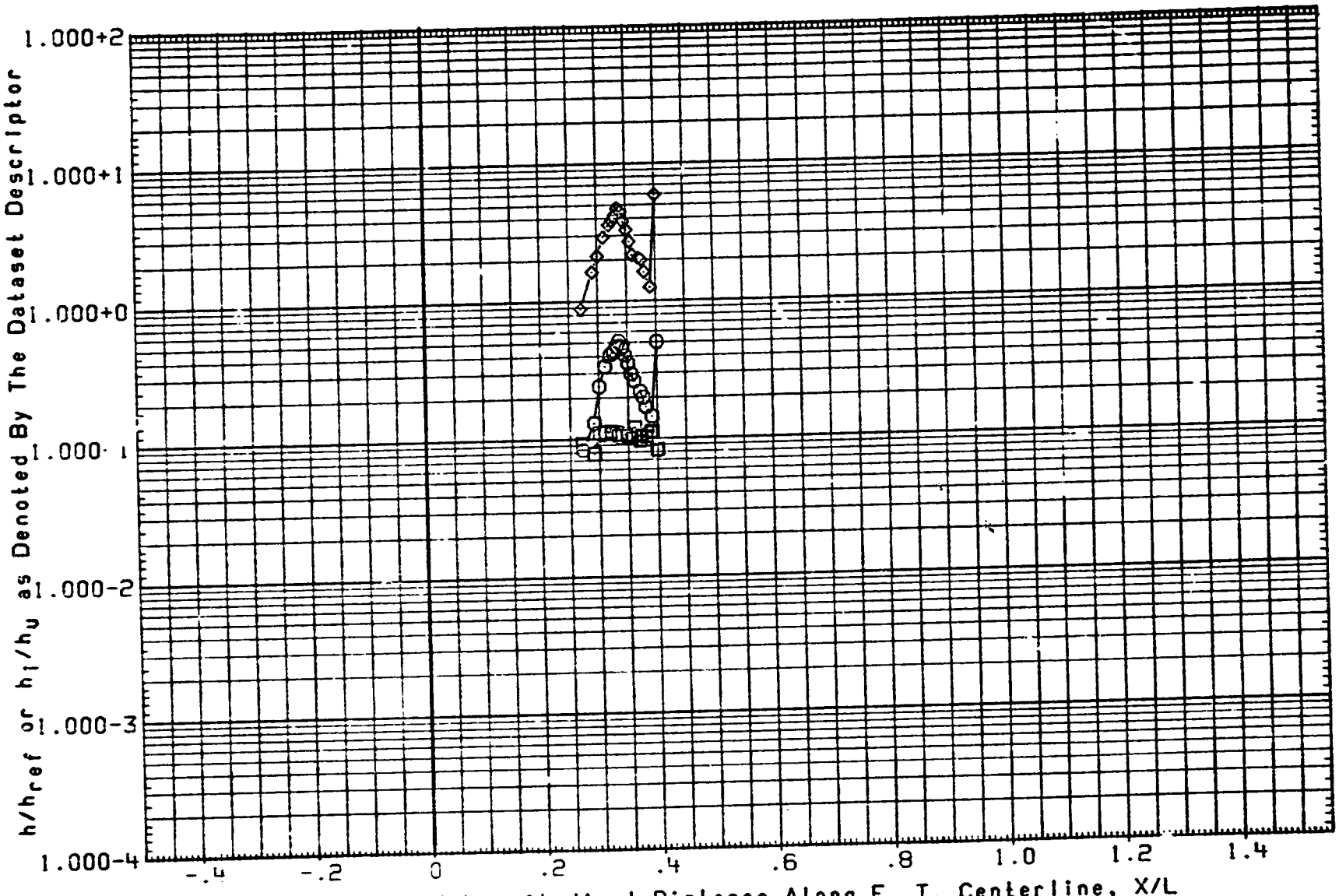


FIGURE 6: HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 5, BETA= -6

MACH = 3.510 ALPHA = 5.000 PHI = 258.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(3V7F41)	○	IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	5.000	-6.000	5.000
(IV7F17)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	5.000	-6.000	5.000
(.V7F41)	◇	IH41(AEDC V41A-A4A) O T S / T (ET DATA) HI/HU	5.000	-6.000	5.000

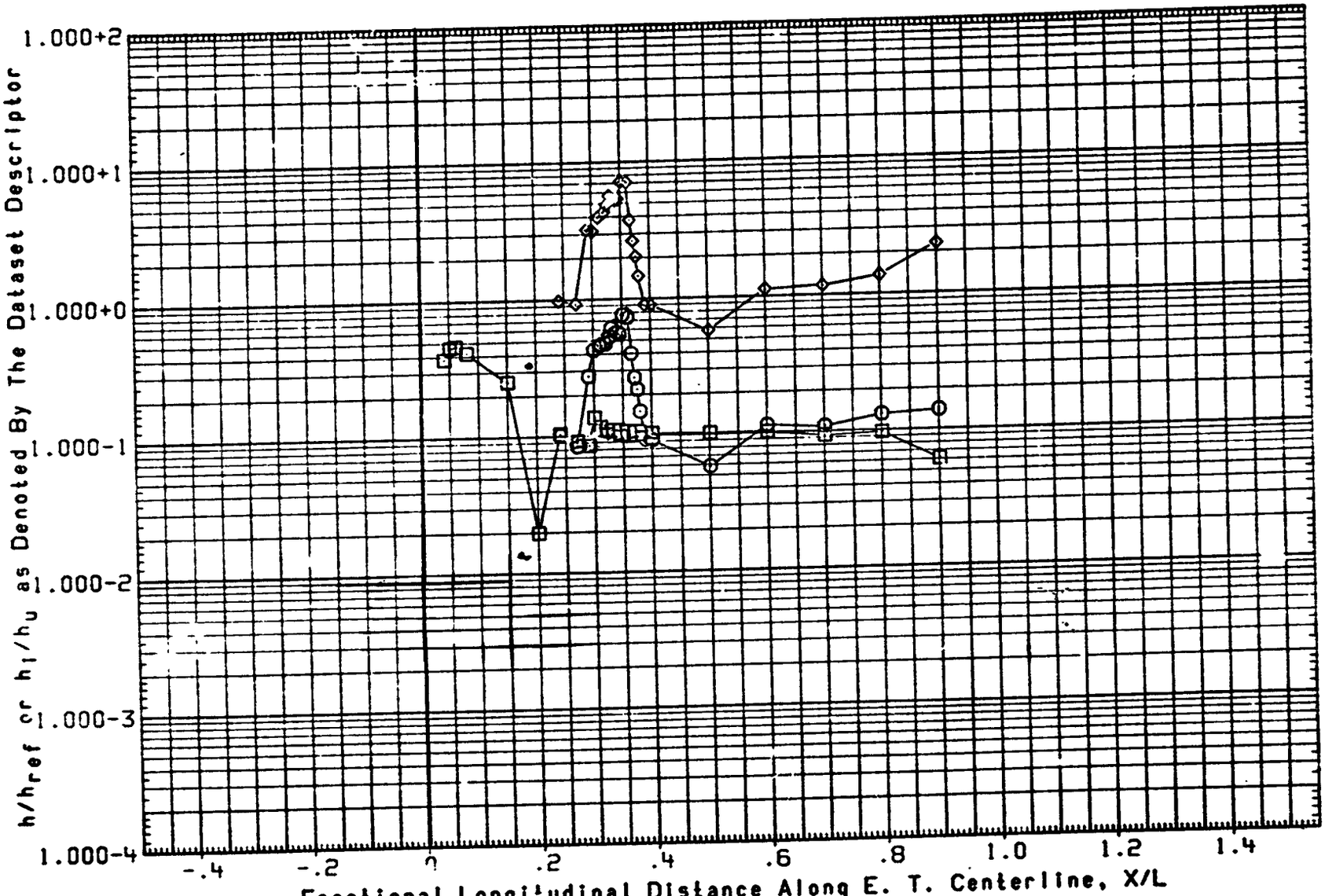


FIGURE 6. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 5, BETA= -6

MACH = 3.510 ALPHA = 5.000 PHI = 270.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F41)	○	IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	5.000	-6.000	5.000
(BV7F17)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	5.000	-6.000	5.000
(JV7F41)	◇	IH41(AEDC V41A-A4A) O T S / T (ET DATA) HI/HU	5.000	-6.000	5.000

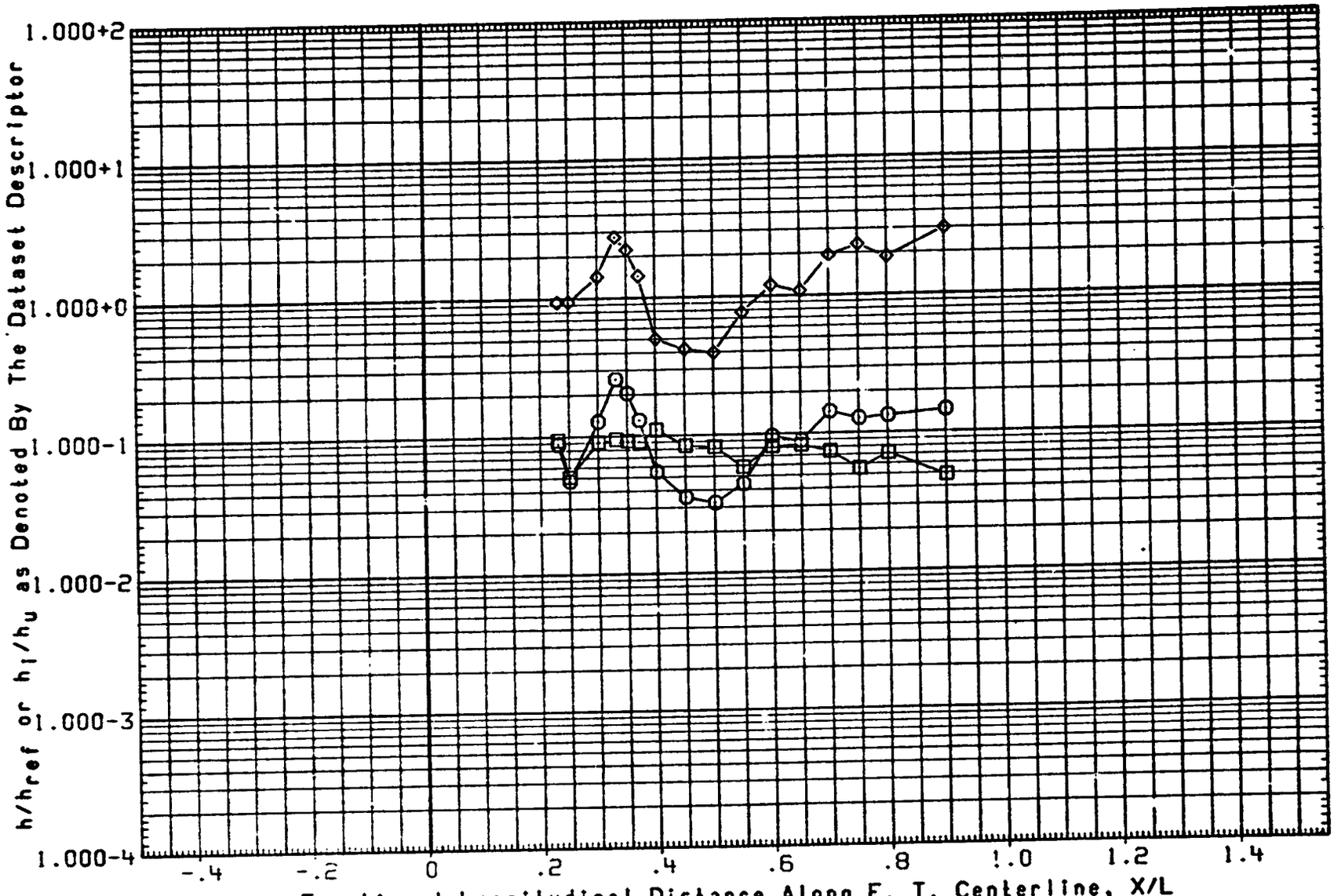


FIGURE 6. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 5, BETA= -6

MACH = 3.510 ALPHA = 5.000 PHI 292.500

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F41)	○	IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	5.000	-6.000	5.000
(BV7F17)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	5.000	-6.000	5.000
(JV7F41)	◇	IH41(AEDC V41A-A4A) O T S / T (ET DATA) HI/HU	5.000	-6.000	5.000

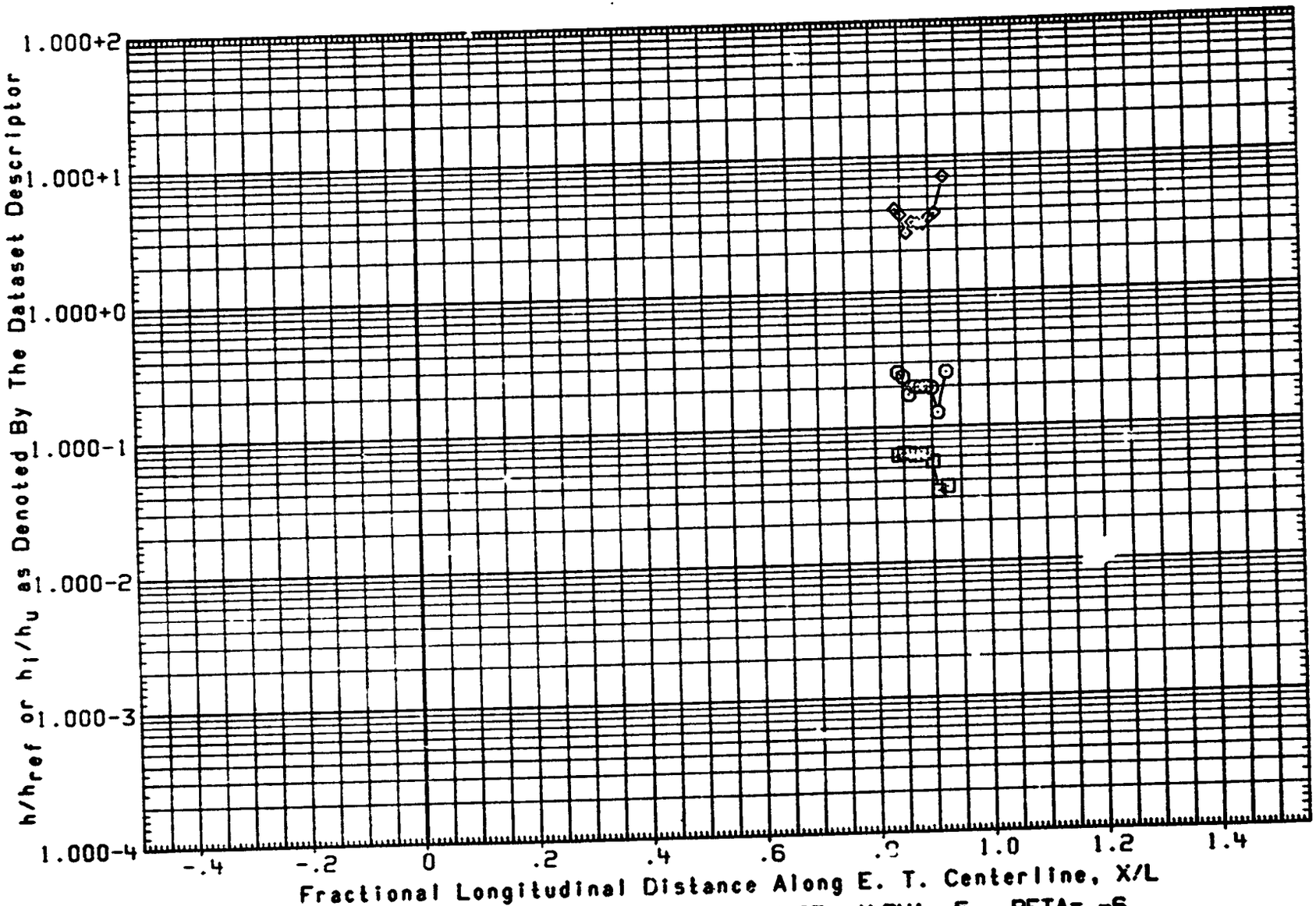


FIGURE 6. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 5, BETA= -6

MACH = 3.510 ALPHA = 5.000 PHI = 305.400

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F41)	○	IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	5.000	-6.000	5.000
(BV7F17)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	5.000	-6.000	5.000
(JV7F41)	◇	IH41(AEDC V41A-A4A) O T S / T (ET DATA) HI/HU	5.000	-6.000	5.000

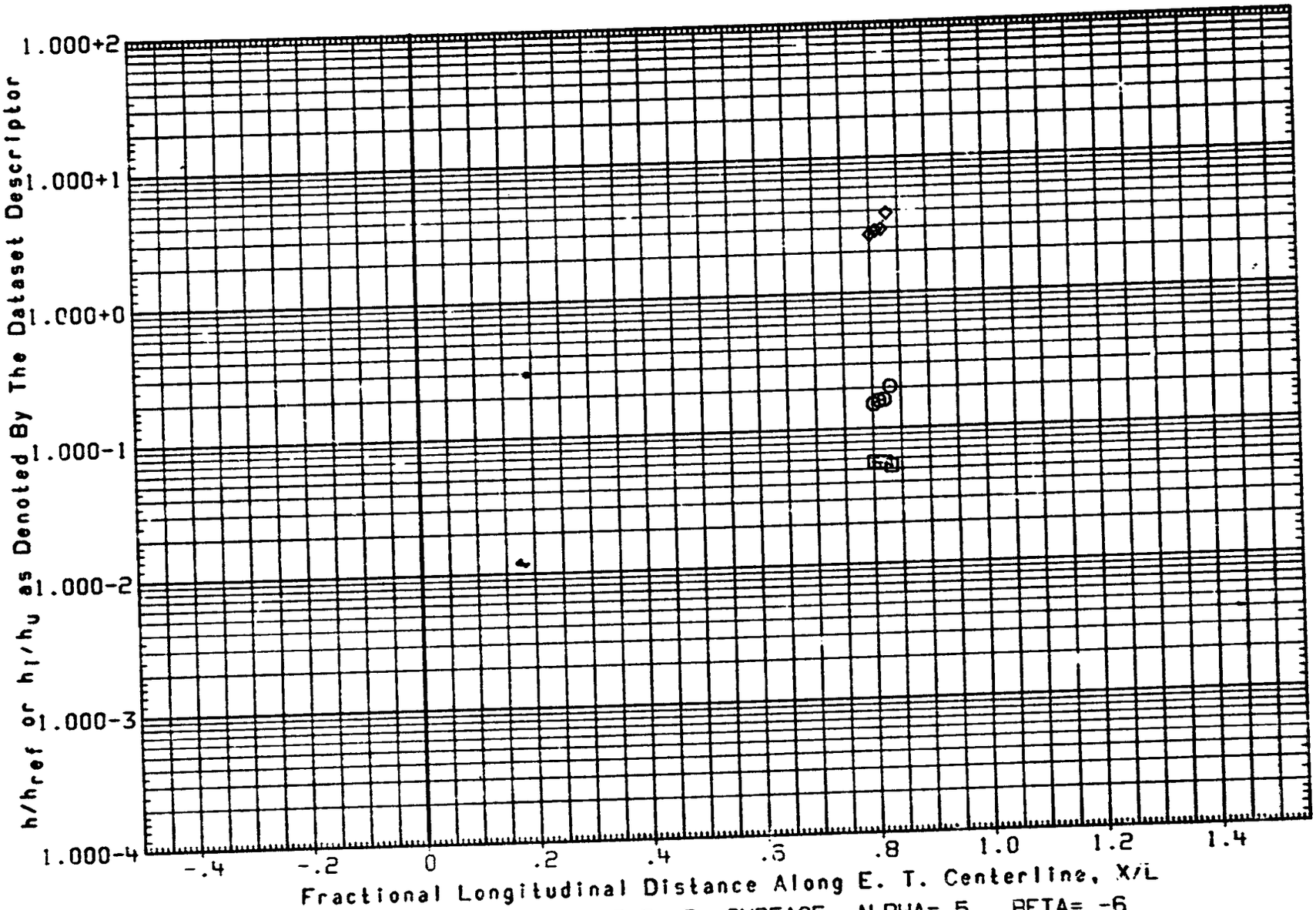


FIGURE 6. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 5, BETA= -6

MACH = 3.510 ALPHA = 5.000 PHI = 309.300

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F41)	○	IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	5.000	-6.000	5.000
(BV7F17)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	5.000	-6.000	5.000
(JV7F41)	◇	IH41(AEDC V41A-A4A) O T S / T (ET DATA) H1/HU	5.000	-6.000	5.000

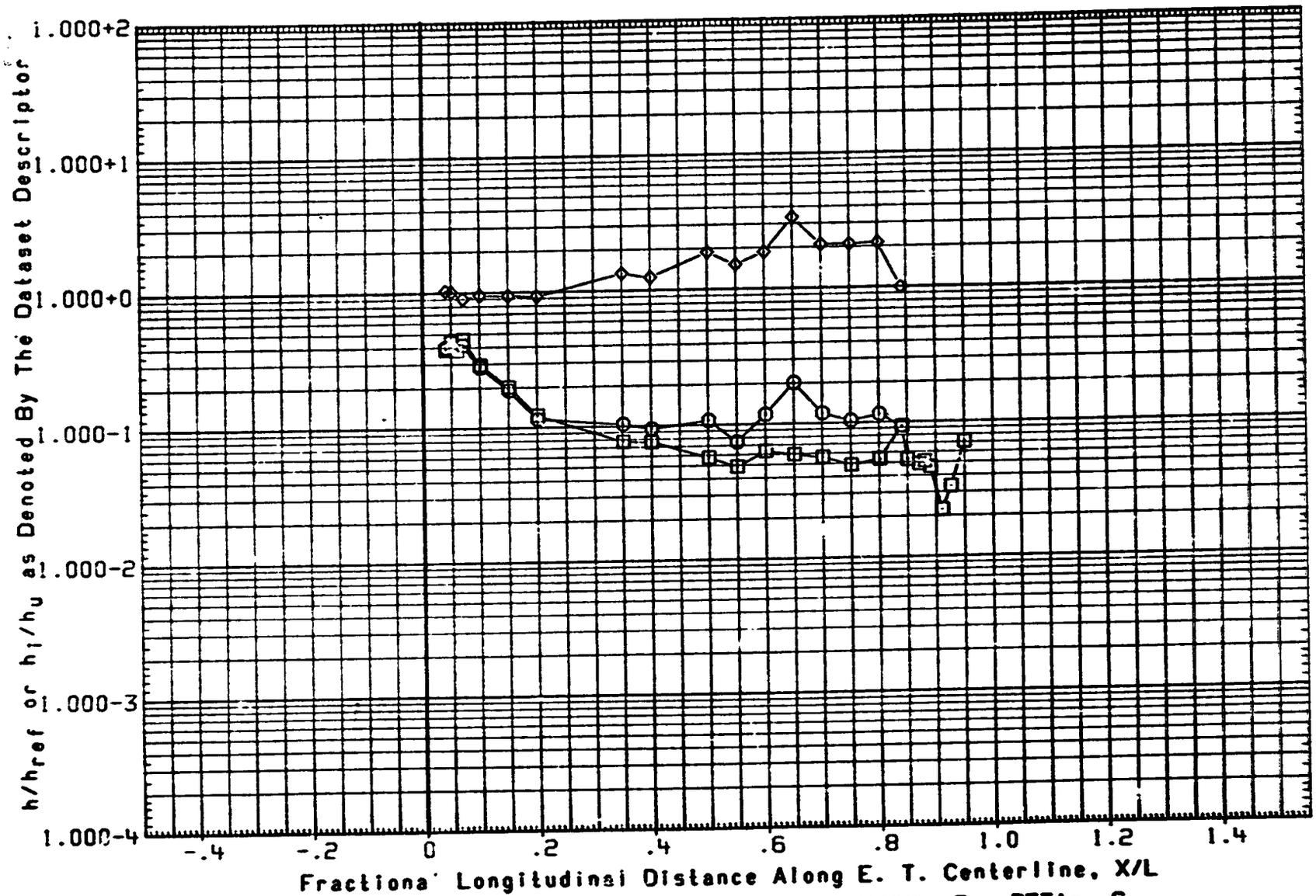


FIGURE 6. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 5, BETA= -6

MACH = 3.510 ALPHA = 5.000 PHI = 315.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F41)	○	DATA NOT AVAILABLE	5.000	-6.000	5.000
(BV7F17)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	5.000	-6.000	5.000
(JV7F41)	◇	DATA NOT AVAILABLE	5.000	-6.000	5.000

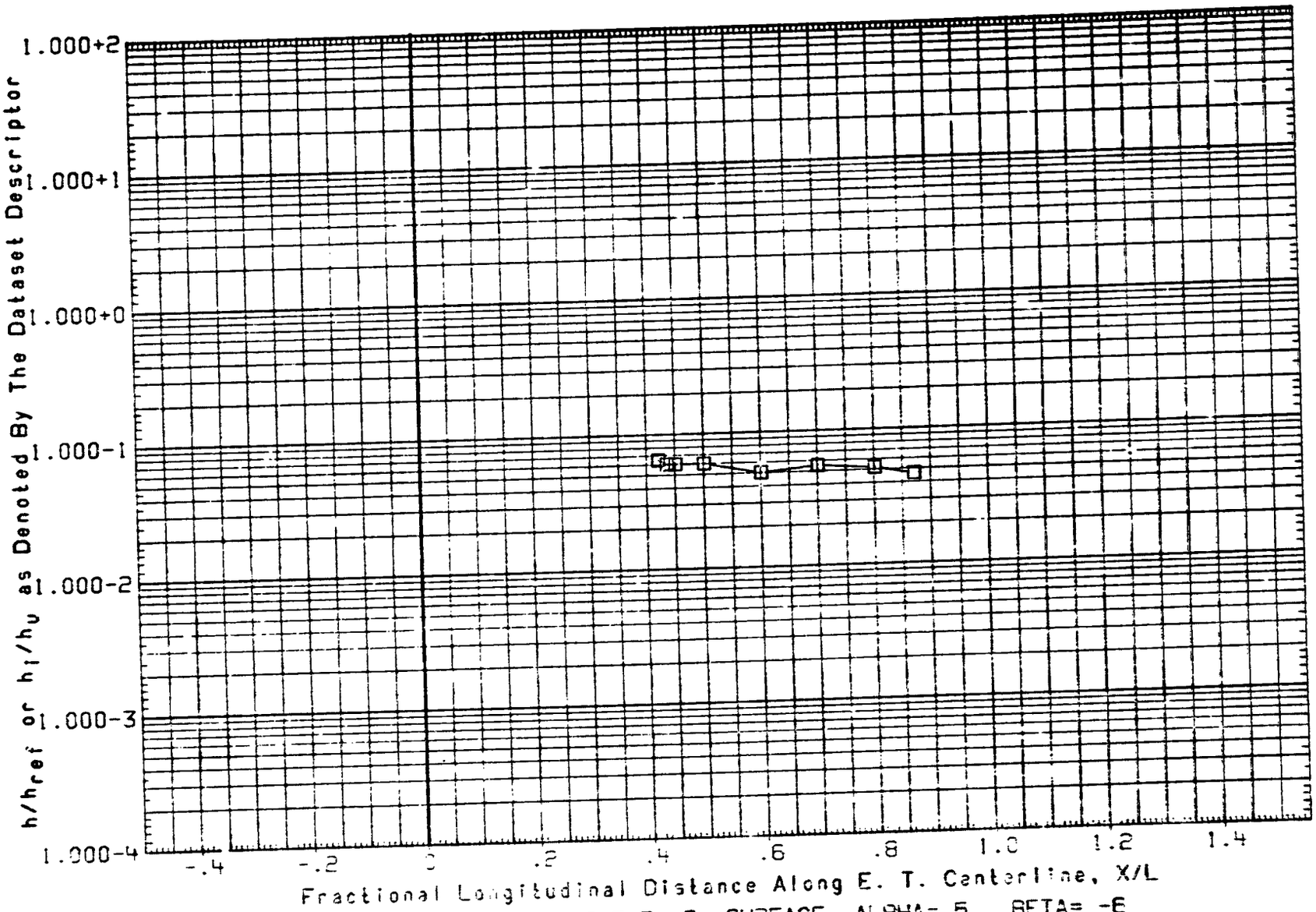


FIGURE 6. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 5, BETA= -6

MACH = 8.510 ALPHA = 5.000 PHI = 322.300

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F41)	○	DATA NOT AVAILABLE	5.000	-6.000	5.000
(BV7F17)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	5.000	-6.000	5.000
(JV7F41)	◇	DATA NOT AVAILABLE	5.000	-6.000	5.000

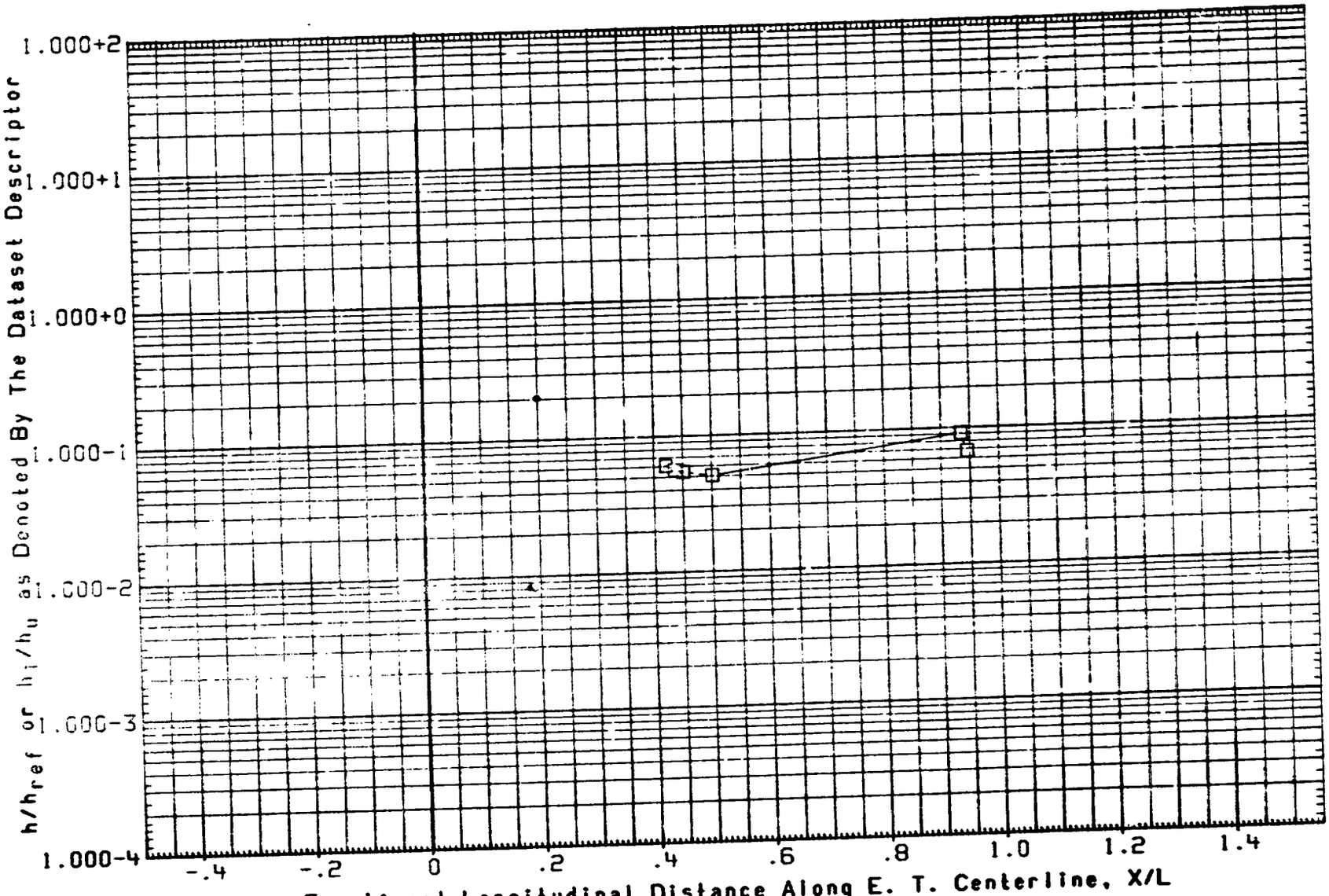


FIGURE 6. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 5, BETA= -6

MACH = 3.510 ALPHA = 5.000 PHI = 334.930

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F41)	○	DATA NOT AVAILABLE	5.000	-6.000	5.000
(BV7F17)	□	(H41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	5.000	-6.000	5.000
(JV7F41)	◇	DATA NOT AVAILABLE	5.000	-6.000	5.000

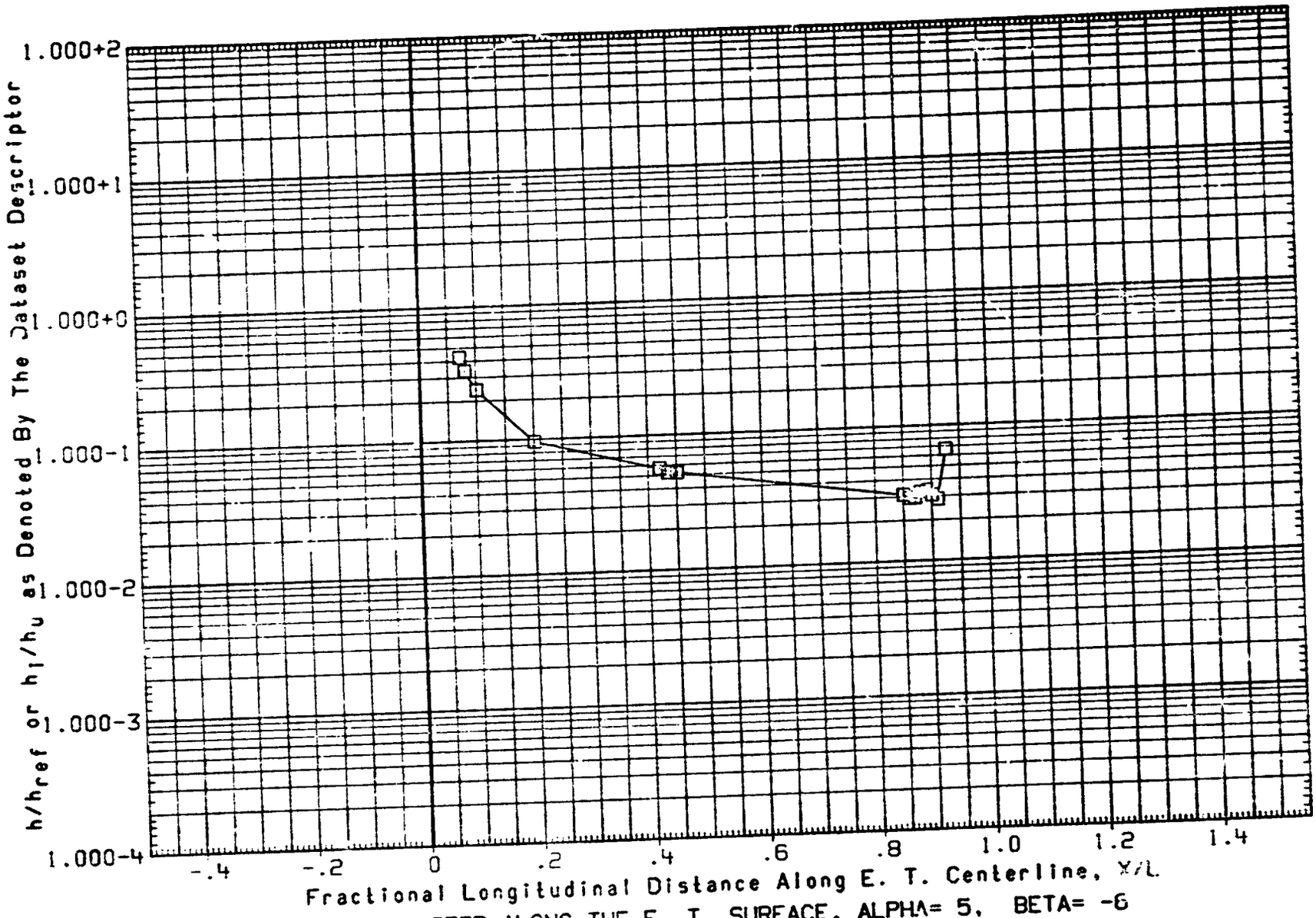


FIGURE 6. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 5, BETA= -6

MACH = 3.510 ALPHA = 5.000 PHI = 337.500

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F41)	○	DATA NOT AVAILABLE	5.000	-6.000	5.000
(BV7F17)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	5.000	-6.000	5.000
(JV7F41)	◇	DATA NOT AVAILABLE	5.000	-6.000	5.000

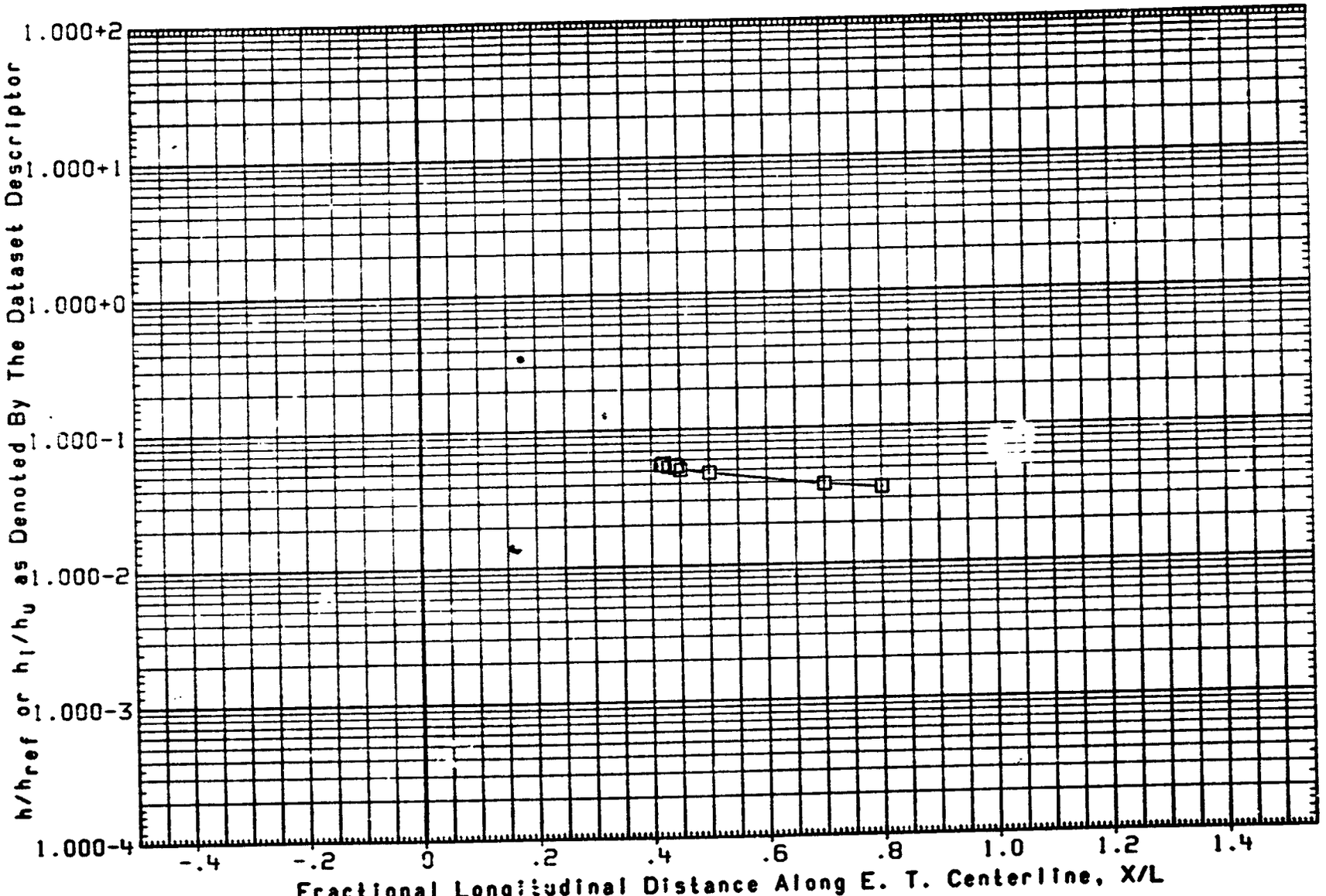


FIGURE 6. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 5, BETA= -6

MACH = 3.510 ALPHA = 5.000 PHI = 343.120

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F41)	○	DATA NOT AVAILABLE	5.000	-6.000	5.000
(BV7F17)	□	IHN1(AEDC V41A-A4A) T3 NIPPLE NOSE ET	5.000	-6.000	5.000
(JV7F41)	◇	DATA NOT AVAILABLE	5.000	-6.000	5.000

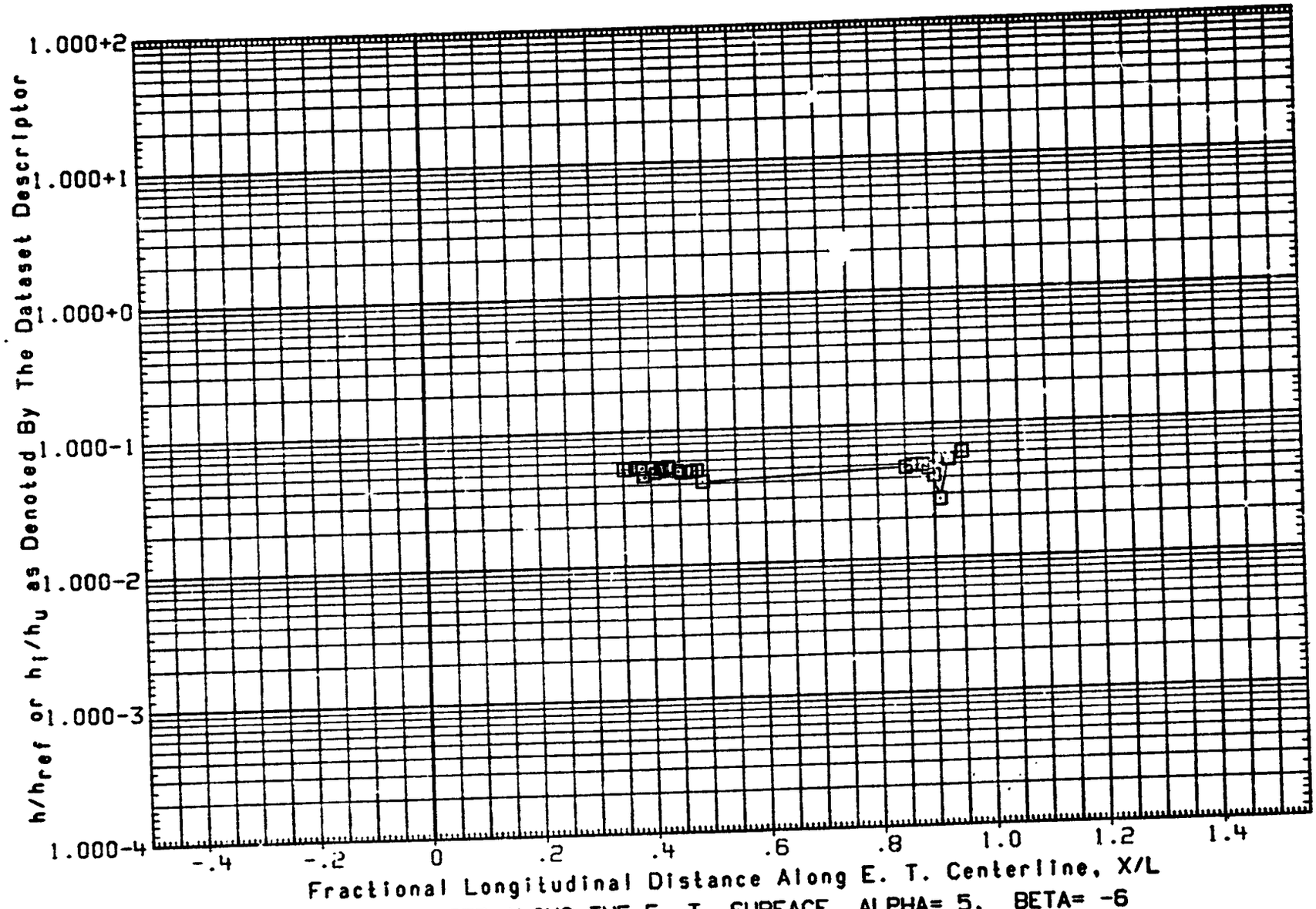


FIGURE 6. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 5, BETA= -6

MACH = 3.510 ALPHA = 5.000 PHI = 348.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F42)	○	IH+1(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	10.000	.000	5.000
(BV7F18)	□	IH+1(AEDC V41A-A4A) T3 NIPPLE NOSE ET	10.000	.000	5.000
(JV7F42)	◇	IH+1(AEDC V41A-A4A) O T S / T (ET DATA) HI/HU	10.000	.000	5.000

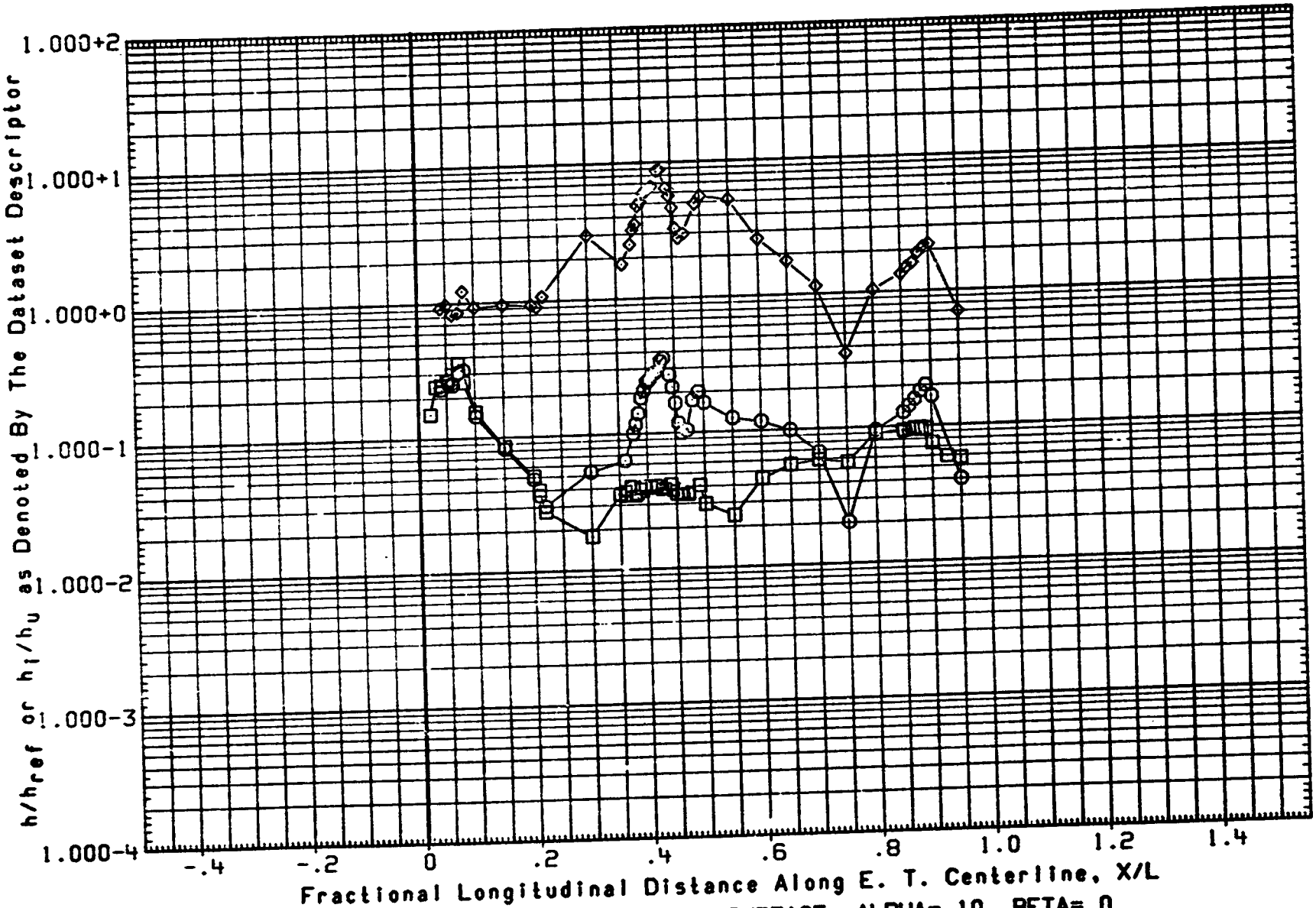


FIGURE 7. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 10 BETA= 0

MACH = 3.510 ALPHA = 10.000 PHI = .000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F42)	○	IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	10.000	.000	5.000
(BV7F18)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	10.000	.000	5.000
(JV7F42)	◇	IH41(AEDC V41A-A4A) O T S / T (ET DATA) HI/HU	10.000	.000	5.000

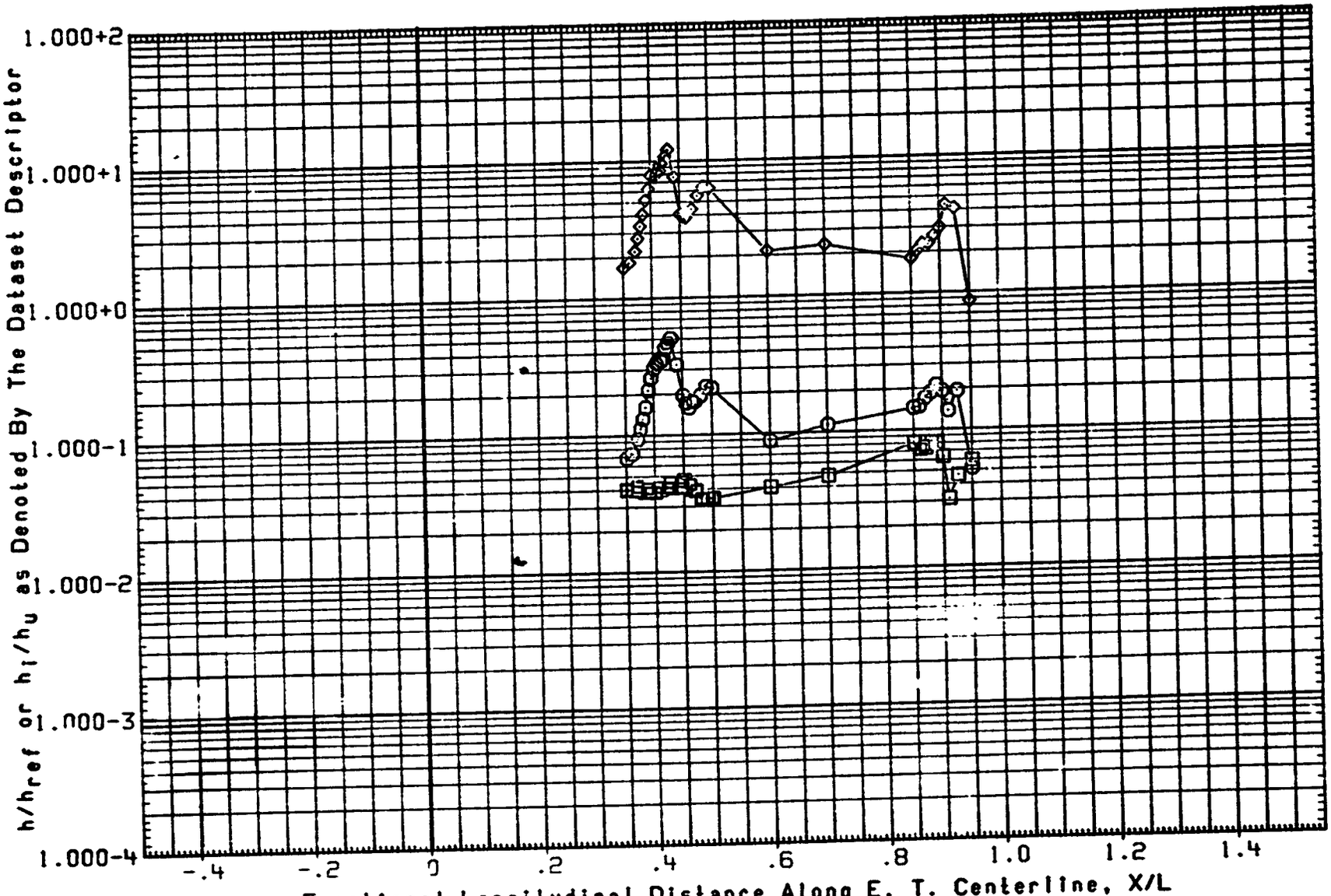


FIGURE 7. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 10 BETA= 0

MACH = 3.510 ALPHA = 10.000 PHI = 11.250

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F42)	○	IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	10.000	.000	5.000
(BV7F18)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	10.000	.000	5.000
(JV7F42)	◇	IH41(AEDC V41A-A4A) O T S / T (ET DATA) HI/HU	10.000	.000	5.000

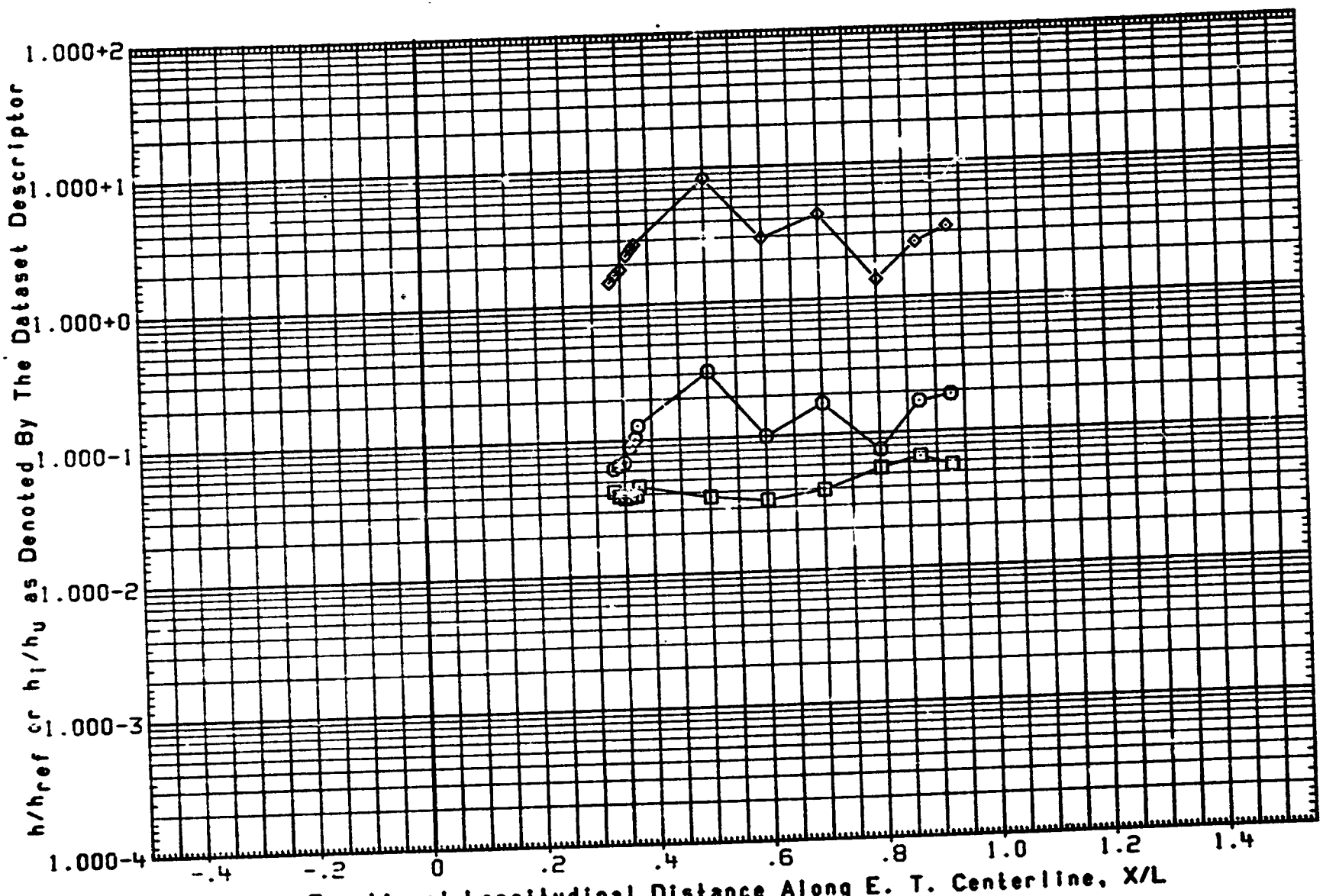


FIGURE 7. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 10 BETA= 0

MACH = 3.510 ALPHA = 10.000 PHI = 17.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F42)	○	IHNI(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	10.000	.000	5.000
(BV7F18)	□	IHNI(AEDC V41A-A4A) T3 NIPPLE NOSE ET	10.000	.000	5.000
(JV7F42)	◇	IHNI(AEDC V41A-A4A) O T S / T (ET DATA) HI/HU	10.000	.000	5.000

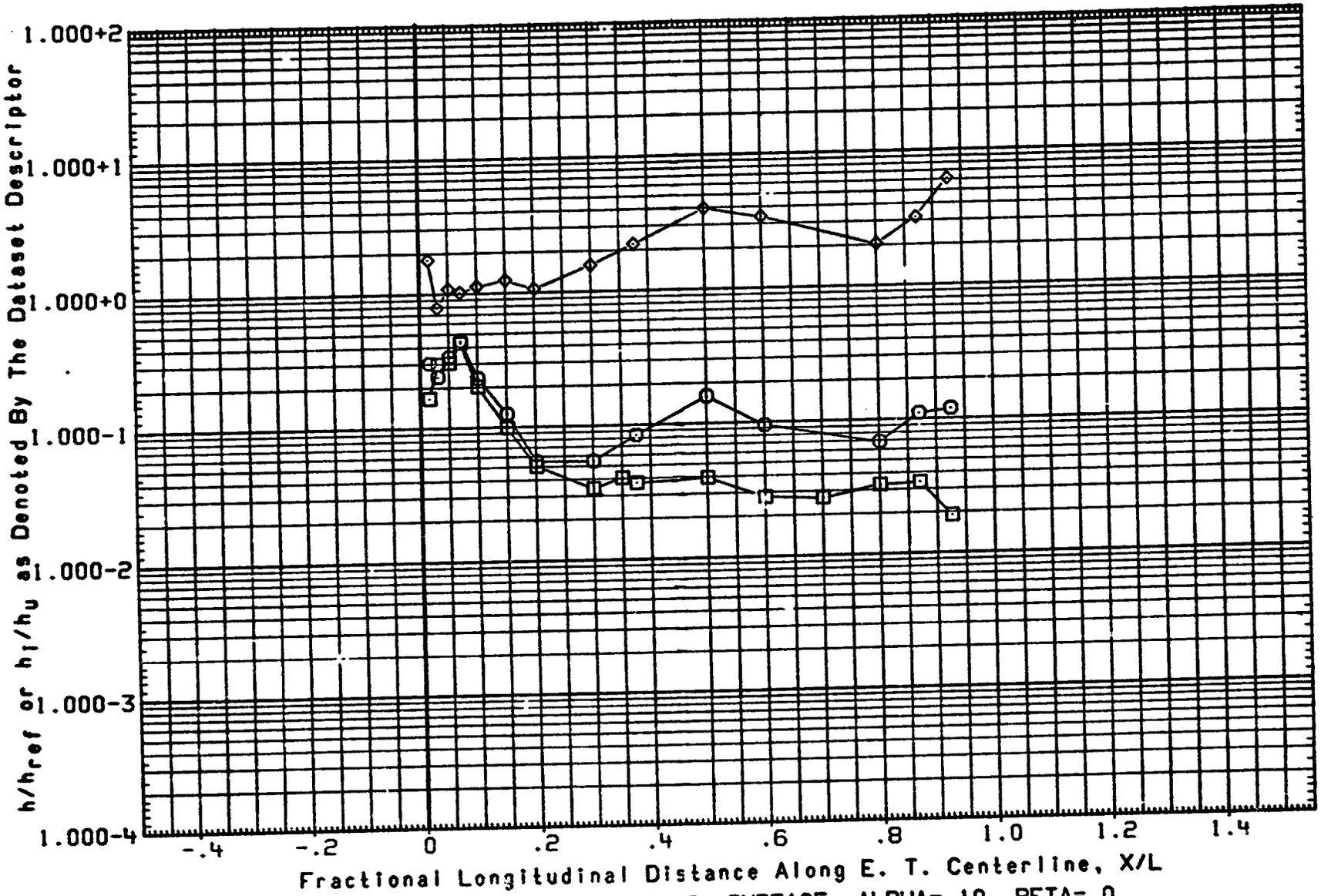


FIGURE 7. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 10 BETA= 0

MACH = 3.510 ALPHA = 10.000 PHI = 29.800

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F42)	○	IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	10.000	.000	5.000
(BV7F18)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	10.000	.000	5.000
(JV7F42)	◇	IH41(AEDC V41A-A4A) O T S / T (ET DATA) HI/HU	10.000	.000	5.000

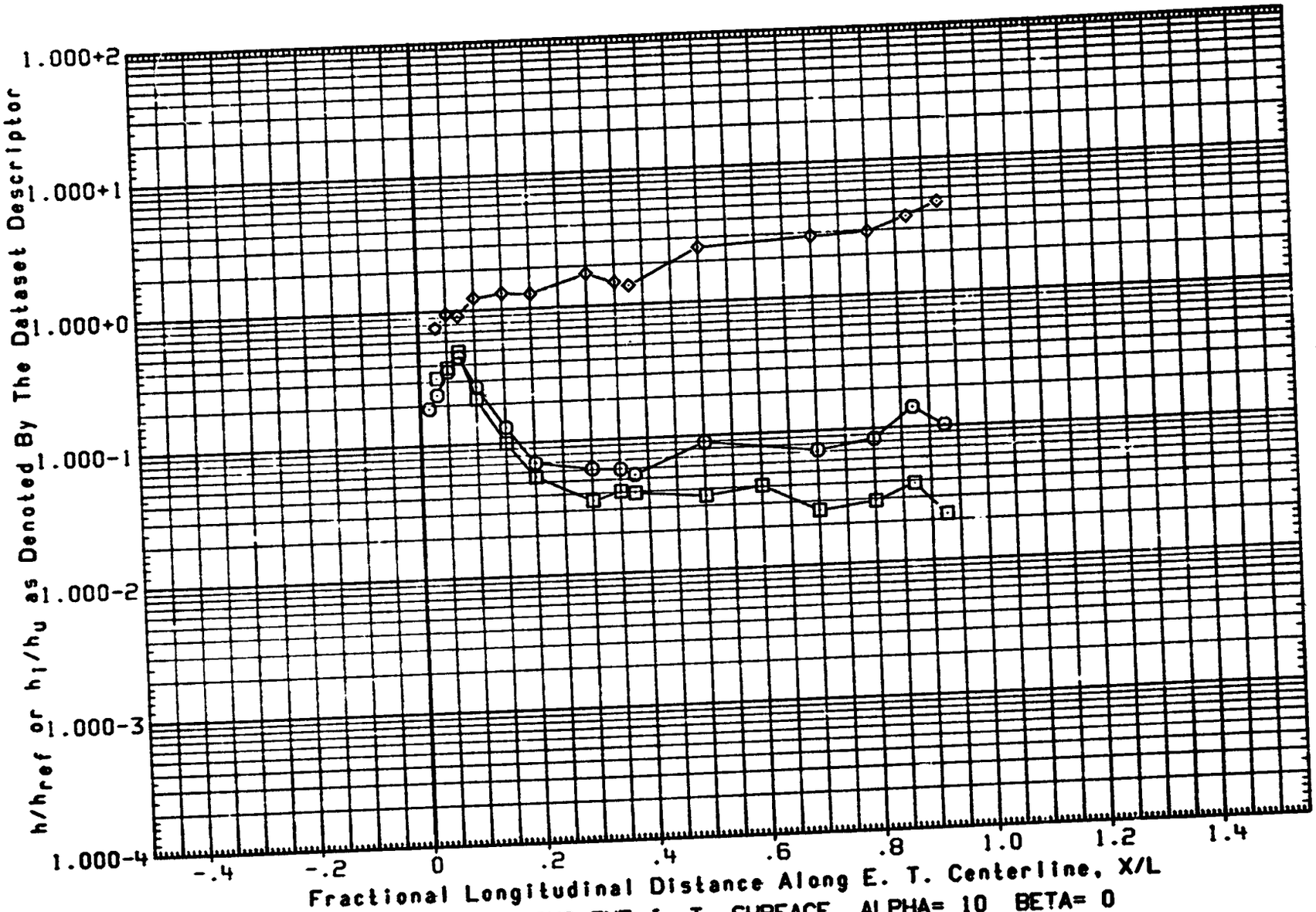


FIGURE 7. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 10 BETA= 0

MACH = 3.510 ALPHA = 10.000 PHI = 37.700

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	KN/L
(BV7F42)	○	IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	10.000	.000	5.000
(BV7F18)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	10.000	.000	5.000
(JV7F42)	◇	IH41(AEDC V41A-A4A) O T S / T (ET DATA) HI/HU	10.000	.000	5.000

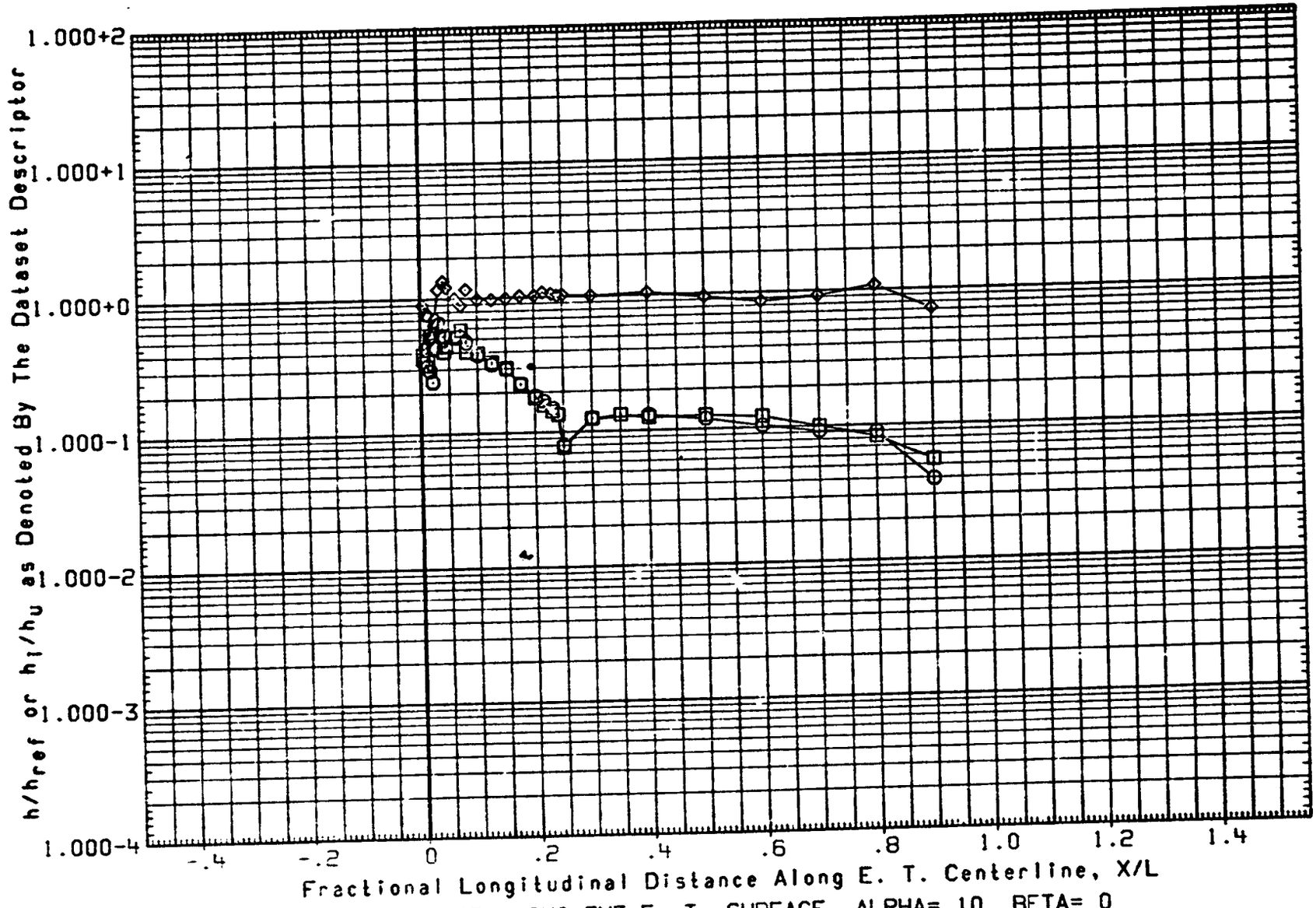


FIGURE 7. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 10 BETA= 0

MACH = 8.810 ALPHA = 10.000 PHI = 180.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F42)	○	IH+1(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	10.000	.000	5.000
(BV7F18)	□	IH+1(AEDC V41A-A4A) T3 NIPPLE NOSE ET	10.000	.000	5.000
(JV7F42)	◇	IH+1(AEDC V41A-A4A) O T S / T (ET DATA) HI/HU	10.000	.000	5.000

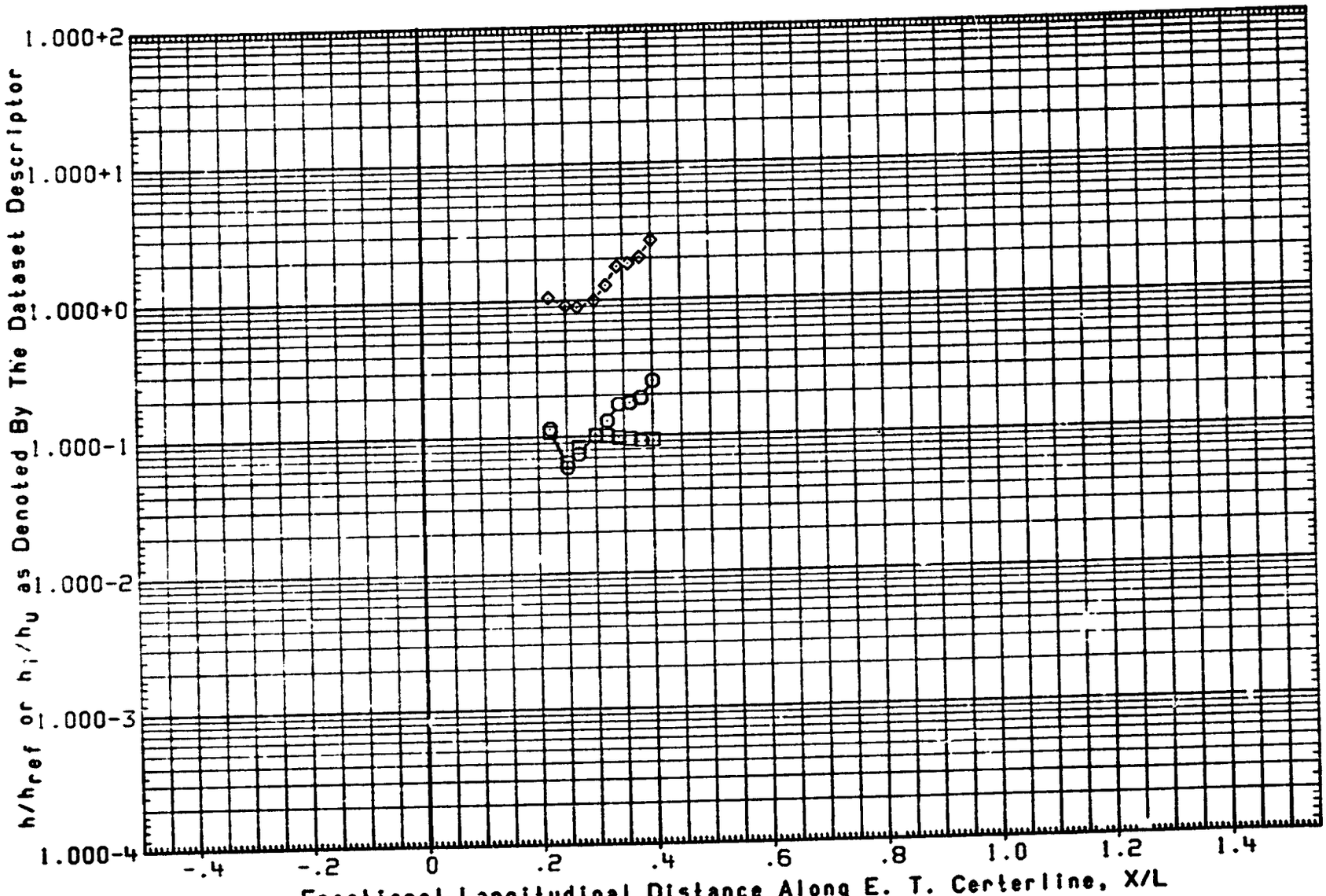


FIGURE 7. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 10 BETA= 0

MACH = 3.510 ALPHA = 10.000 PHI = 235.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F42)	○	IH+1(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	10.000	.000	5.000
(BV7F18)	□	IH+1(AEDC V41A-A4A) T3 NIPPLE NOSE ET	10.000	.000	5.000
(JV7F42)	◇	IH+1(AEDC V41A-A4A) O T S / T (ET DATA) HI/HU	10.000	.000	5.000

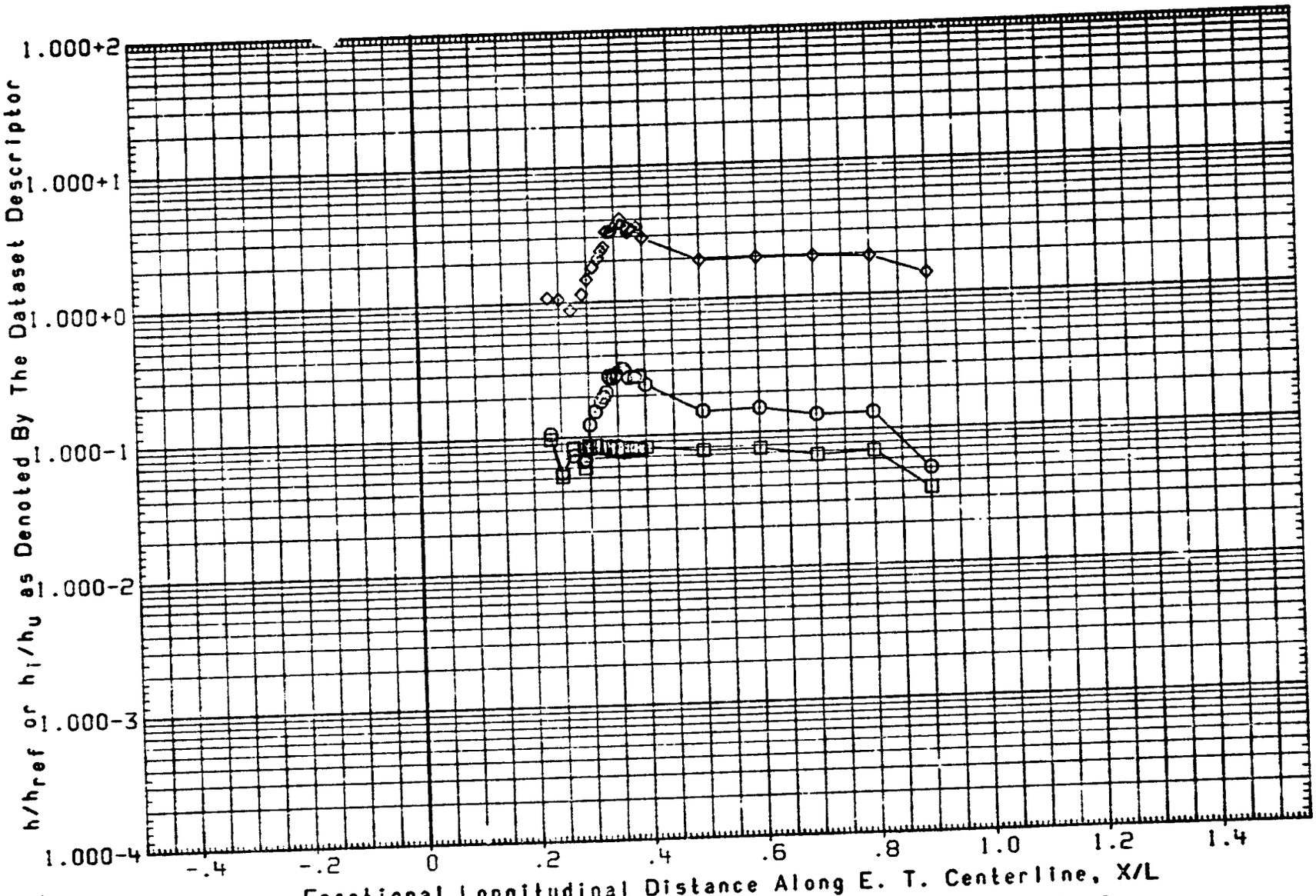


FIGURE 7. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 10 BETA= 0

MACH = 3.510 ALPHA = 10.000 PHI = 247.500

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F42)	○	IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	10.000	.000	5.000
(BV7F18)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	10.000	.000	5.000
(JV7F42)	◇	IH41(AEDC V41A-A4A) O T S / T (ET DATA) HI/HU	10.000	.000	5.000

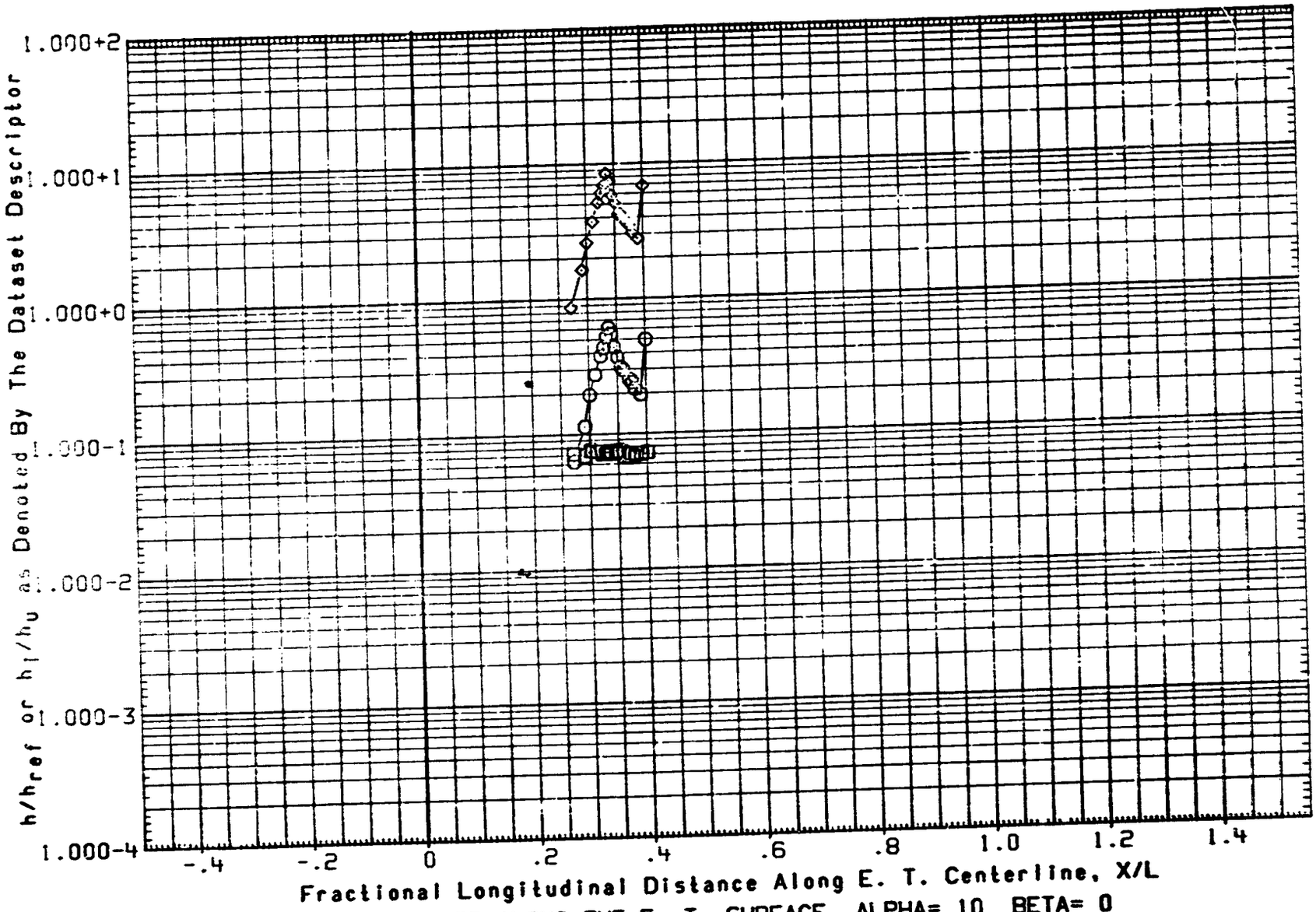


FIGURE 7. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 10 BETA= 0

MACH = 3.510 ALPHA = 10.000 PHI = 258.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F42)	○	IH+1(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	10.000	.000	5.000
(BV7F18)	□	IH+1(AEDC V41A-A4A) T3 NIPPLE NOSE ET	10.000	.000	5.000
(JV7F42)	◇	IH+1(AEDC V41A-A4A) O T S / T (ET DATA) HI/HU	10.000	.000	5.000

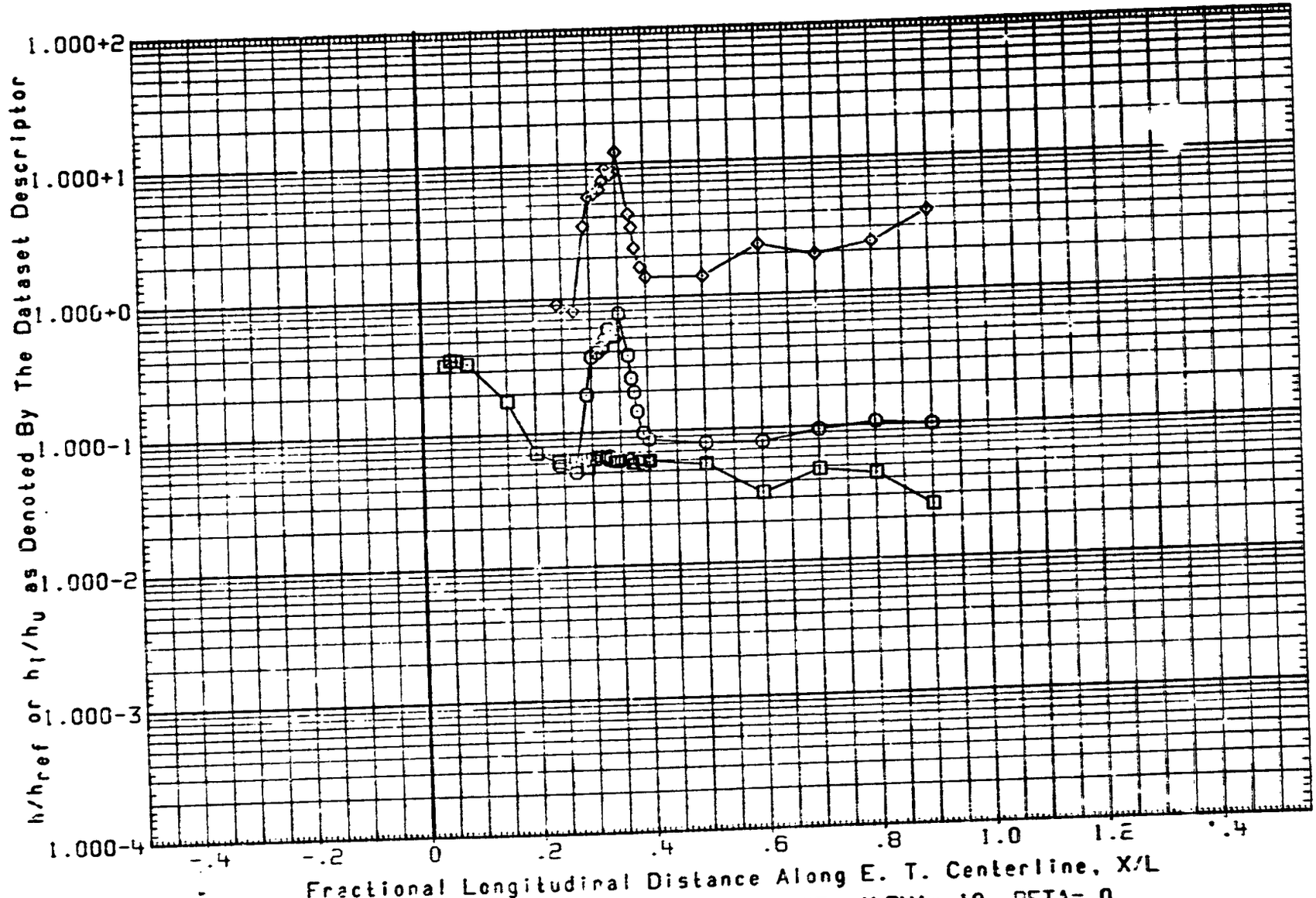


FIGURE 7. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 10 BETA= 0

MACH = 3.510 ALPHA = 10.000 PHI = 270.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F42)	○	IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	10.000	.000	5.000
(BV7F18)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	10.000	.000	5.000
(JV7F42)	◇	IH41(AEDC V41A-A4A) O T S / T (ET DATA) HI/HU	10.000	.000	5.000

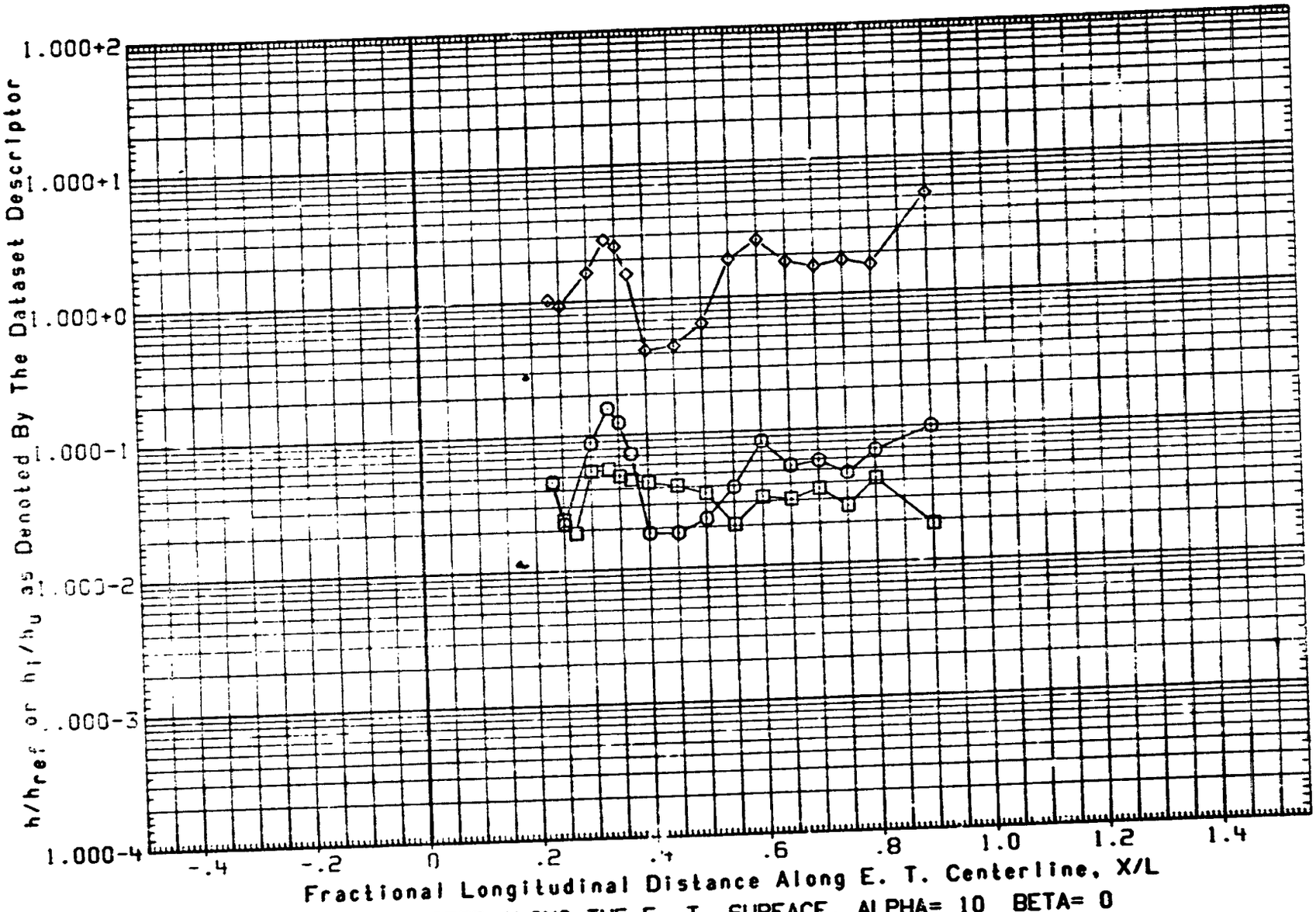


FIGURE 7. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 10 BETA= 0

MACH = 3.510 ALPHA = 10.000 PHI = 292.500

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F42)	○	IH+I(AEDC V+1A-A+A) O T S (CONFIG 2) TANK DATA	10.000	.000	5.000
(BV7F18)	□	IH+I(AEDC V+1A-A+A) T3 NIPPLE NOSE ET	10.000	.000	5.000
(JV7F42)	◇	IH+I(AEDC V+1A-A+A) O T S / T (ET DATA) HI/HU	10.000	.000	5.000

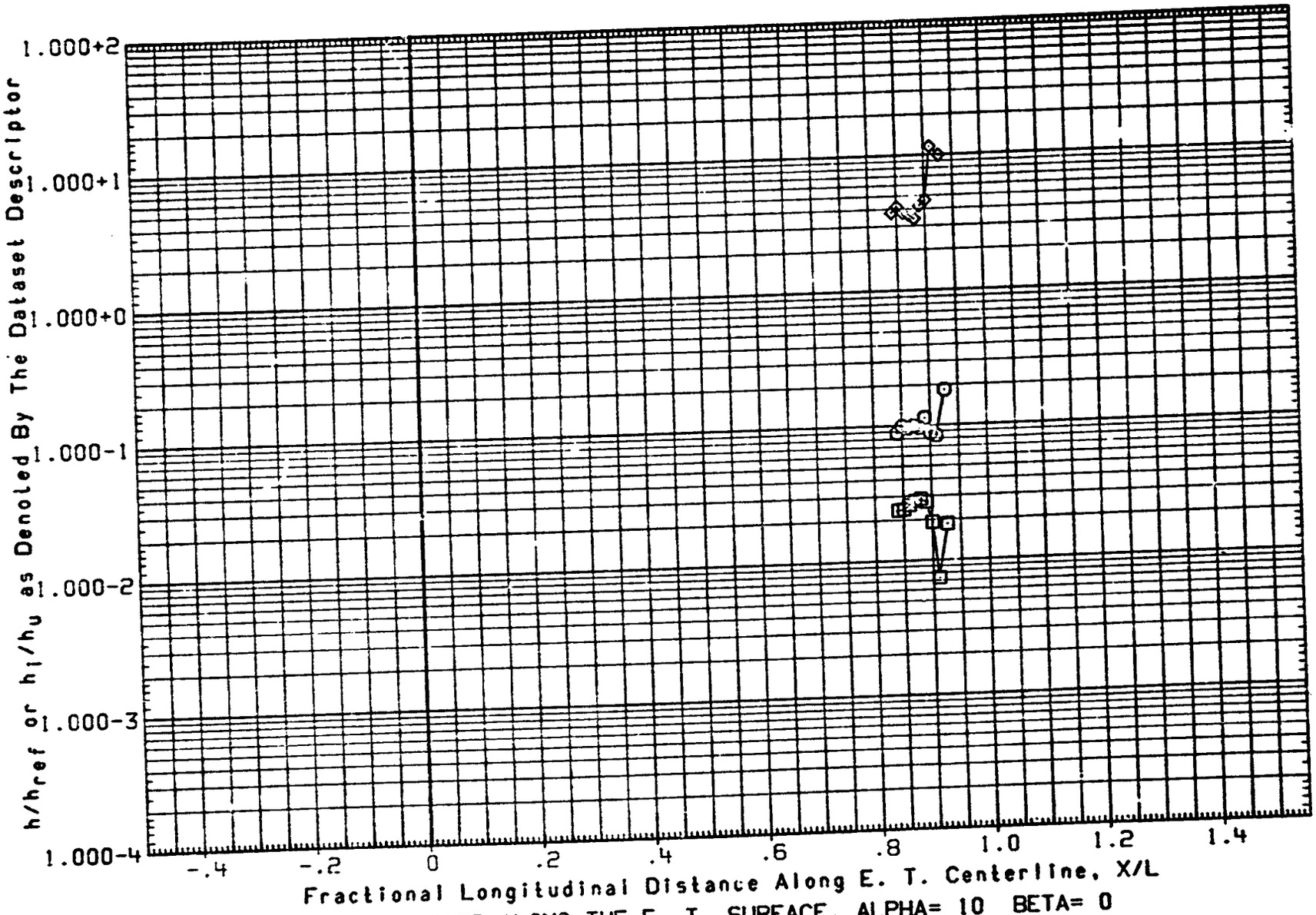


FIGURE 7. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 10 BETA= 0

MACH = 3.510 ALPHA = 10.000 PHI = 305.400

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F42)	○	IH41(AEDC V41A-A4A) 0 T S (CONFIG 2) TANK DATA	10.000	.000	5.000
(BV7F18)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	10.000	.000	5.000
(JV7F42)	◇	IH41(AEDC V41A-A4A) 0 T S / T (ET DATA) HI/HU	10.000	.000	5.000

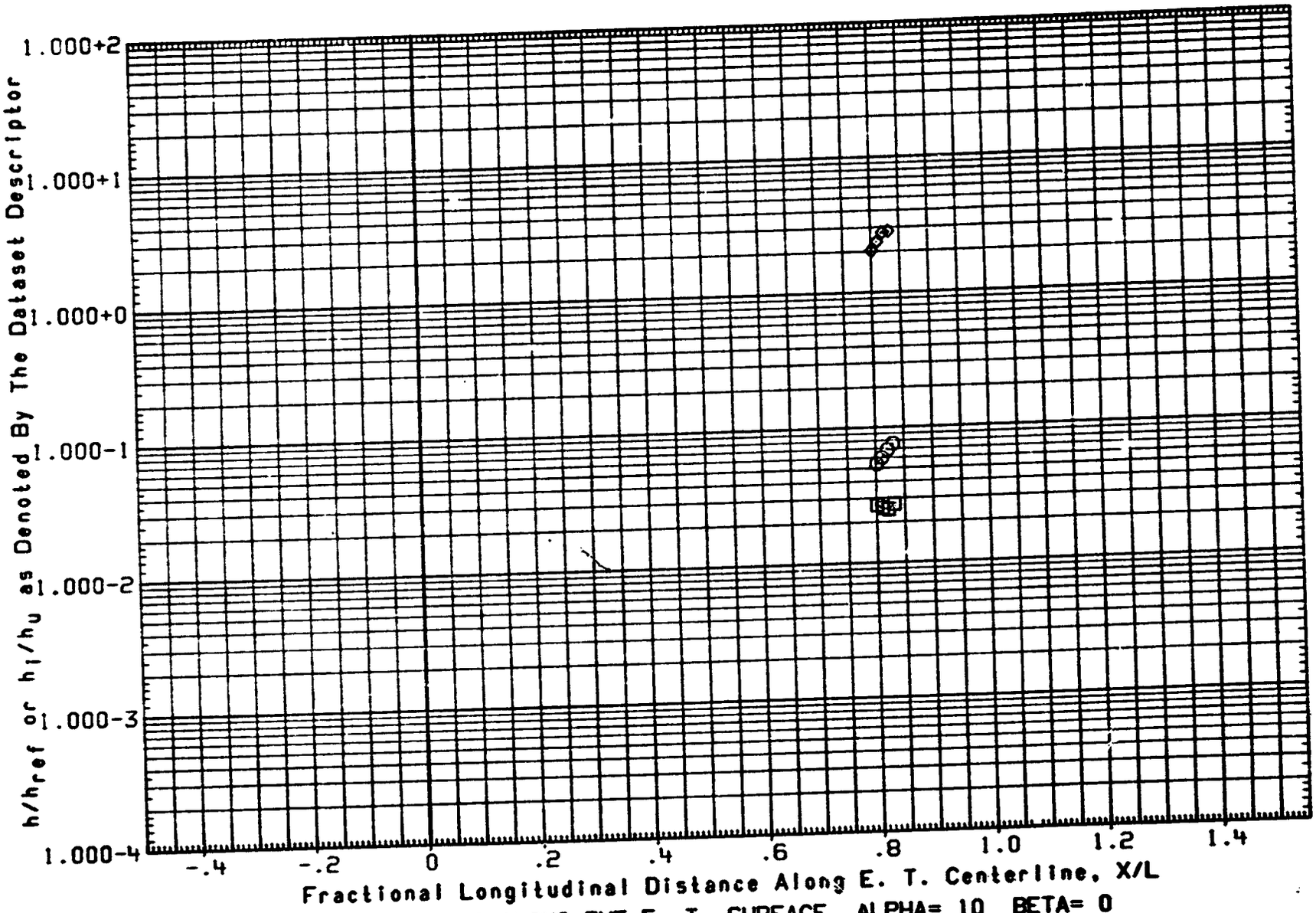


FIGURE 7. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 10 BETA= 0

MACH = 3.510 ALPHA = 10.000 PHI = 309.300

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F42)	○	IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	10.000	.000	5.000
(BV7F18)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	10.000	.000	5.000
(JV7F42)	◇	IH41(AEDC V41A-A4A) C T S / T (ET DATA) HI/HU	10.000	.000	5.000

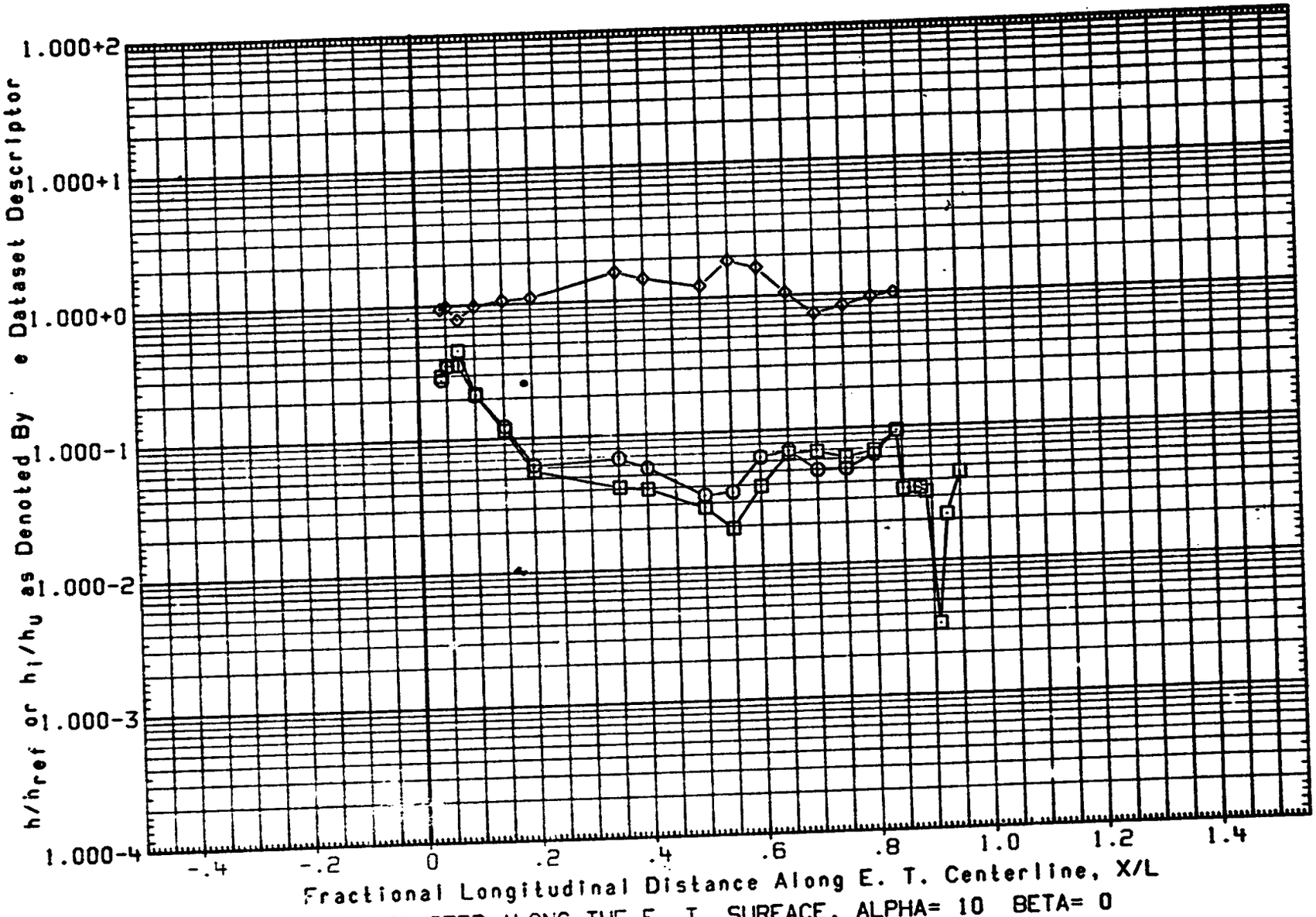


FIGURE 7. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 10 BETA= 0

MACH = 3.510 ALPHA = 10.000 PHI = 315.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F42)	○	DATA NOT AVAILABLE	10.000	.000	5.000
(BV7F18)	□	IHN1(AEDC V41A-A4A) T3 NIPPLE NOSE ET	10.000	.000	5.000
(JV7F42)	◇	DATA NOT AVAILABLE	10.000	.000	5.000

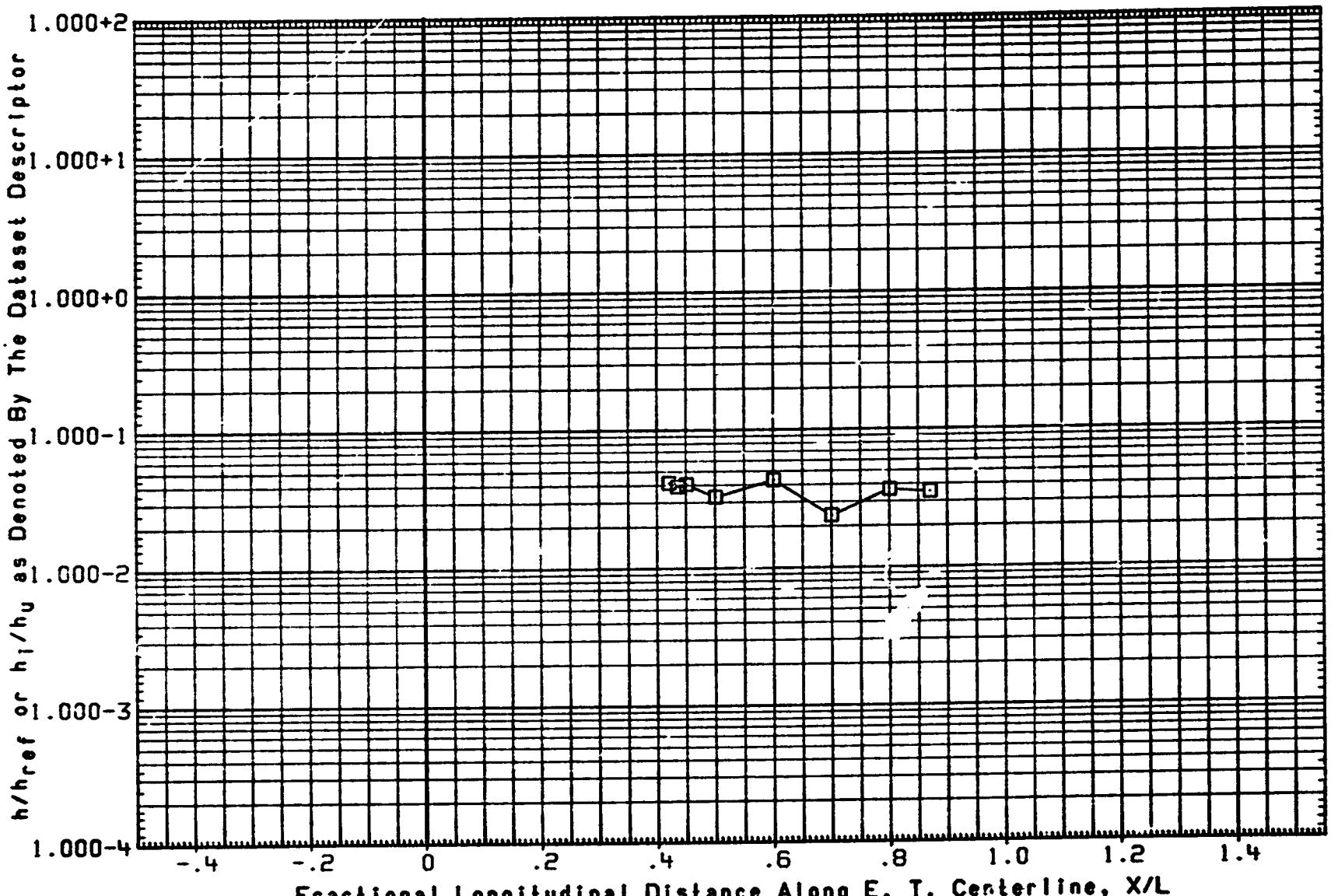


FIGURE 7. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 10 BETA= 0

MACH = 3.510 ALPHA = 10.000 PHI = 322.300

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F42)	○	DATA NOT AVAILABLE	10.000	.000	5.000
(BV7F18)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	10.000	.000	5.000
(JV7F42)	◇	DATA NOT AVAILABLE	10.000	.000	5.000

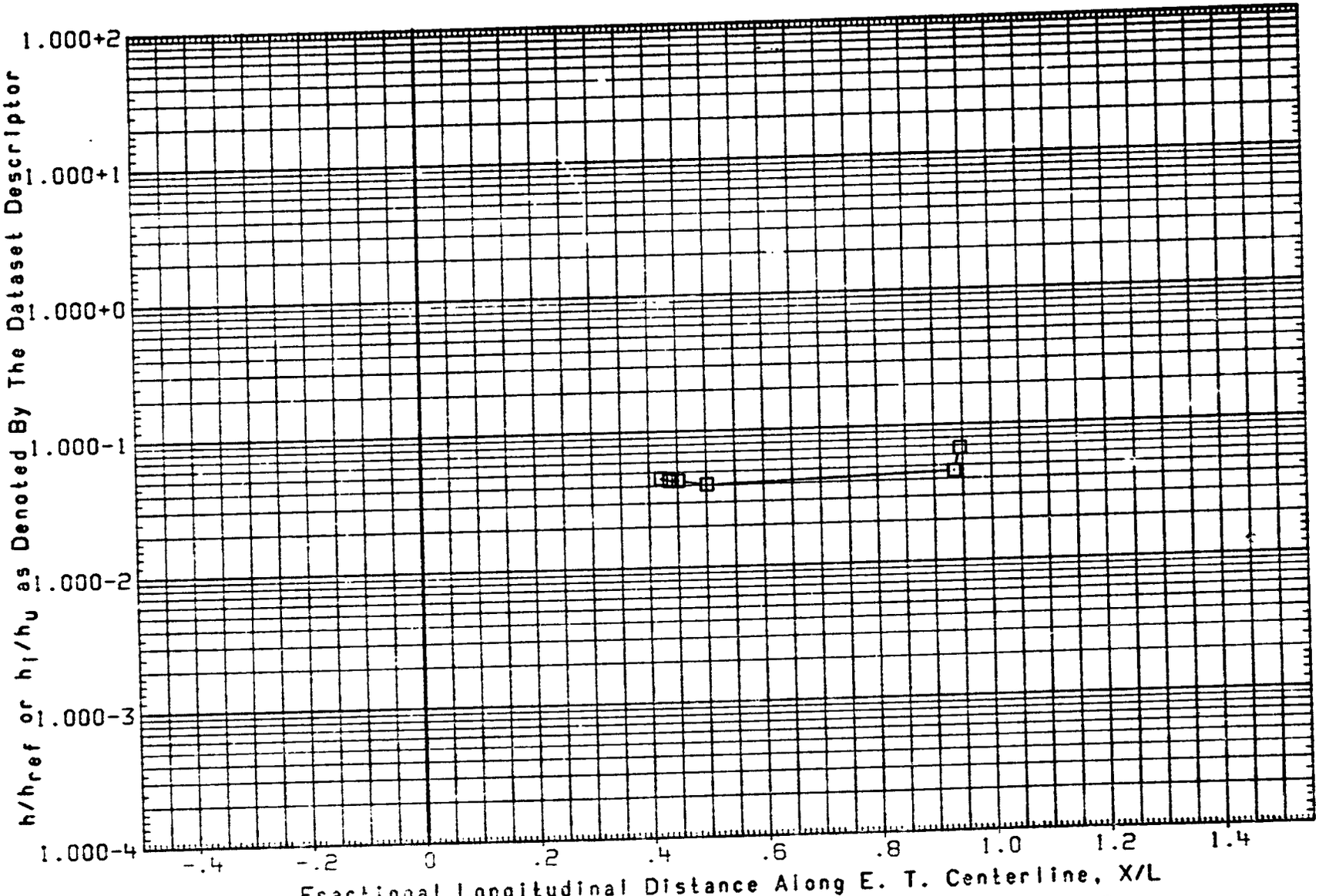


FIGURE 7. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 10 BETA= 0

MACH = 3.510 ALPHA = 10.000 PHI = 334.980

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F42)	○	DATA NOT AVAILABLE	10.000	.000	5.000
(BV7F18)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	10.000	.000	5.000
(JV7F42)	◇	DATA NOT AVAILABLE	10.000	.000	5.000

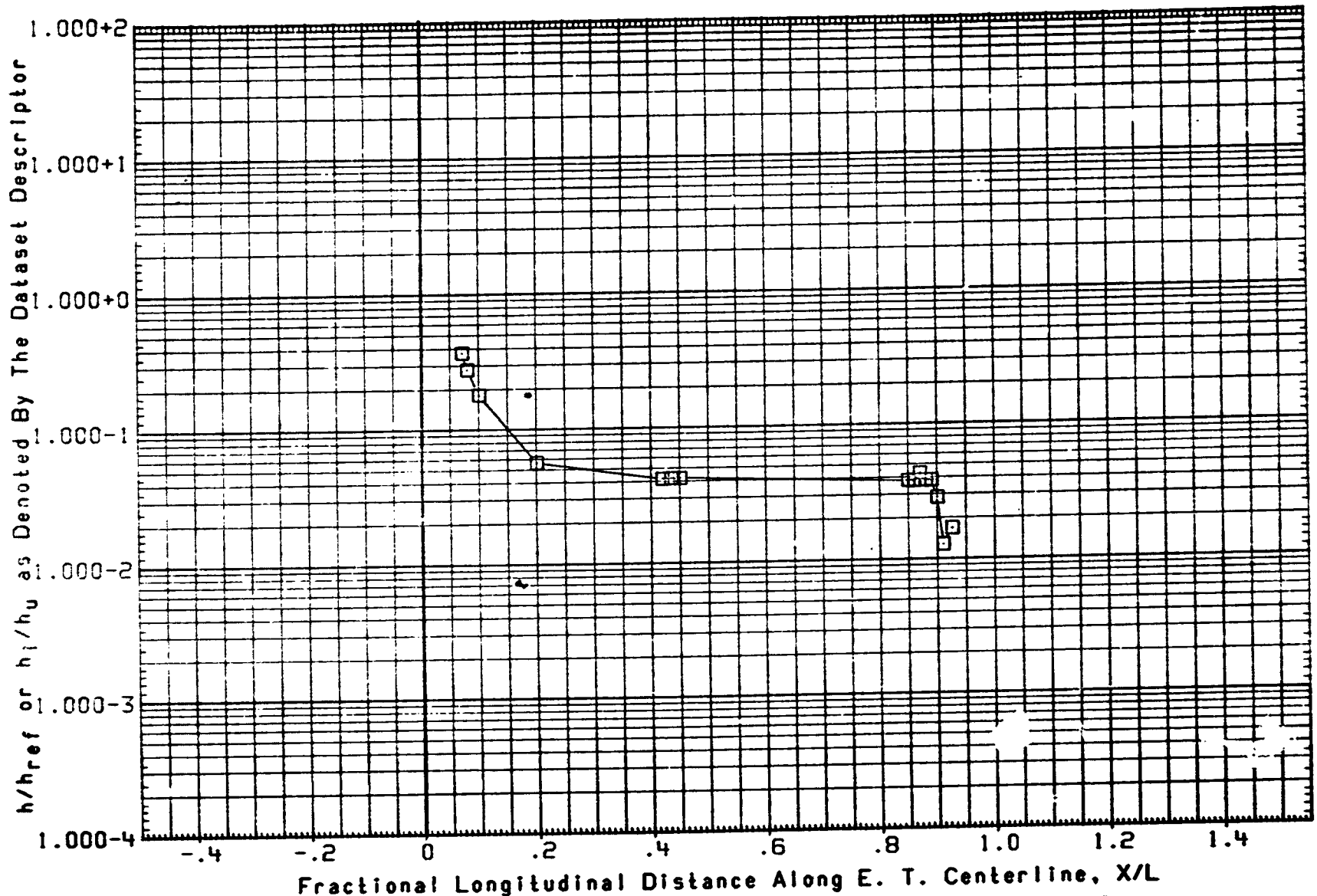


FIGURE 7. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 10 BETA= 0

MACH = 3.510 ALPHA = 10.000 PHI = 337.500

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F42)	○	DATA NOT AVAILABLE	10.000	.000	5.000
(BV7F18)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	10.000	.000	5.000
(JV7F42)	◇	DATA NOT AVAILABLE	10.000	.000	5.000

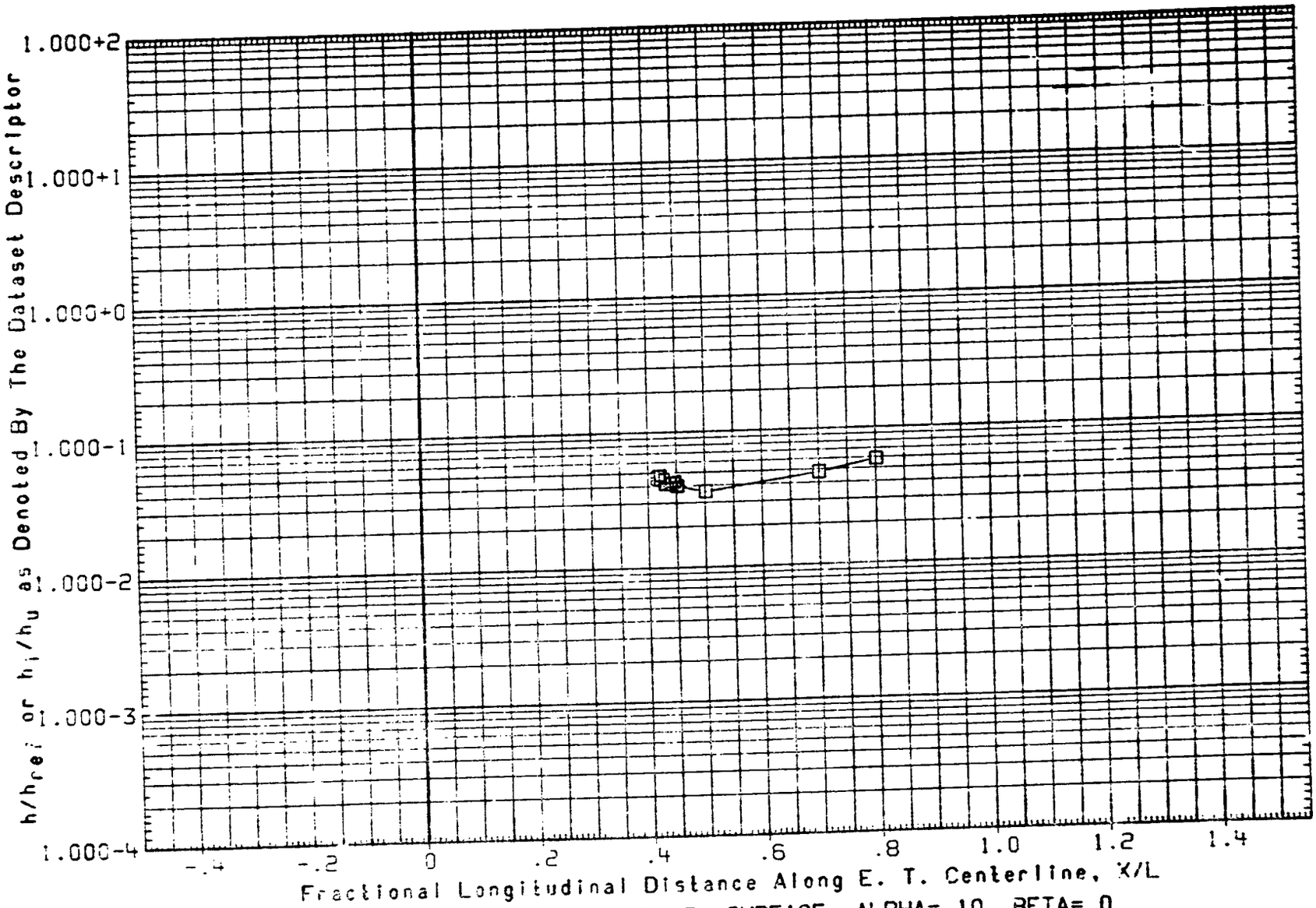


FIGURE 7. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 10 BETA= 0

MACH = 3.510 ALPHA = 10.000 PHI = 343.120

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F42)	○	DATA NOT AVAILABLE	10.000	.000	5.000
(BV7F18)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	10.000	.000	5.000
(JV7F42)	◇	DATA NOT AVAILABLE	10.000	.000	5.000

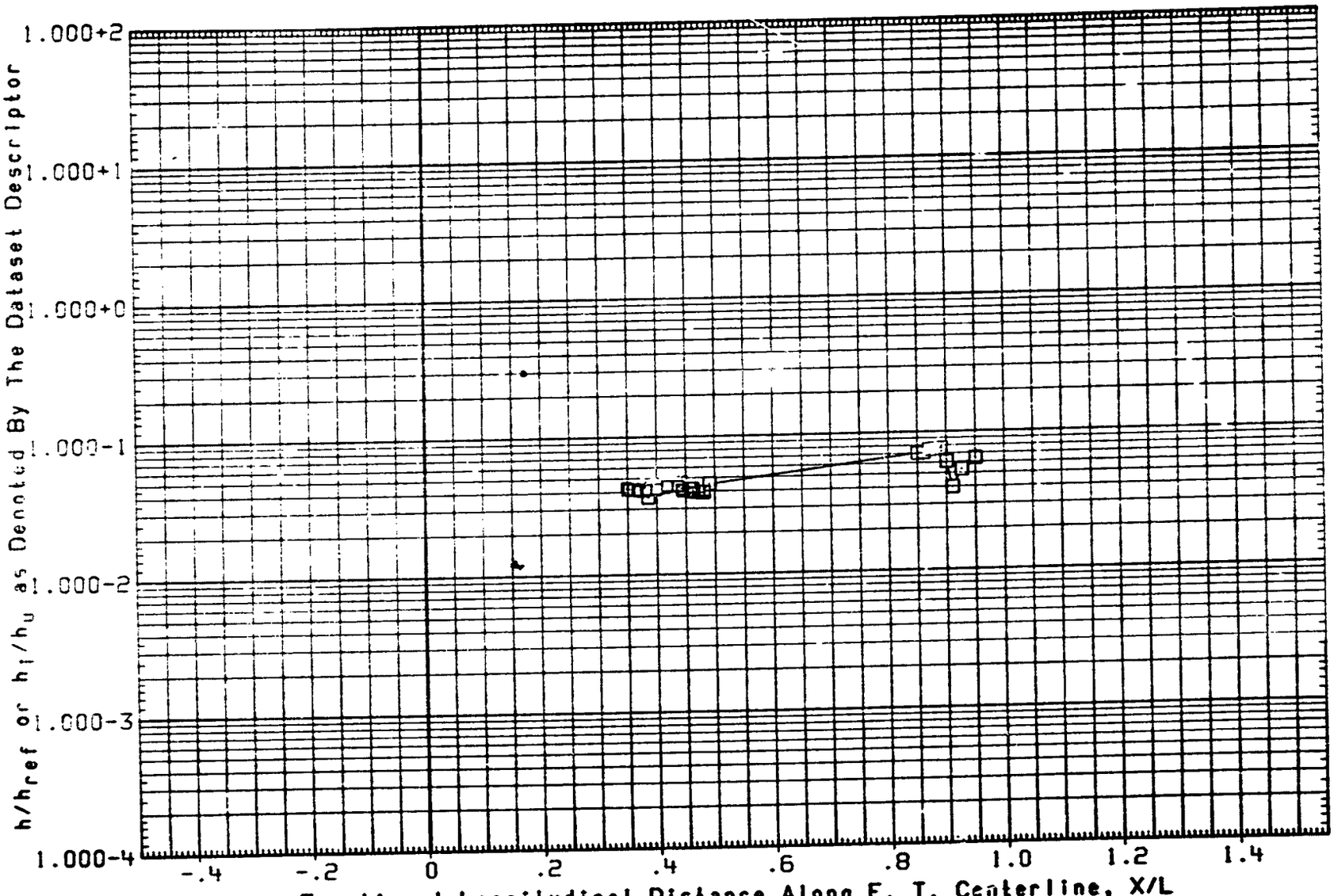


FIGURE 7. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 10 BETA= 0

MACH = 3.510 ALPHA = 10.000 PHI = 348.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F43)	○	IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	10.000	-3.000	5.000
(BV7F19)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	10.000	-3.000	5.000
(JV7F43)	◇	IH41(AEDC V41A-A4A) O T S / T (ET DATA) HI/HU	10.000	-3.000	5.000

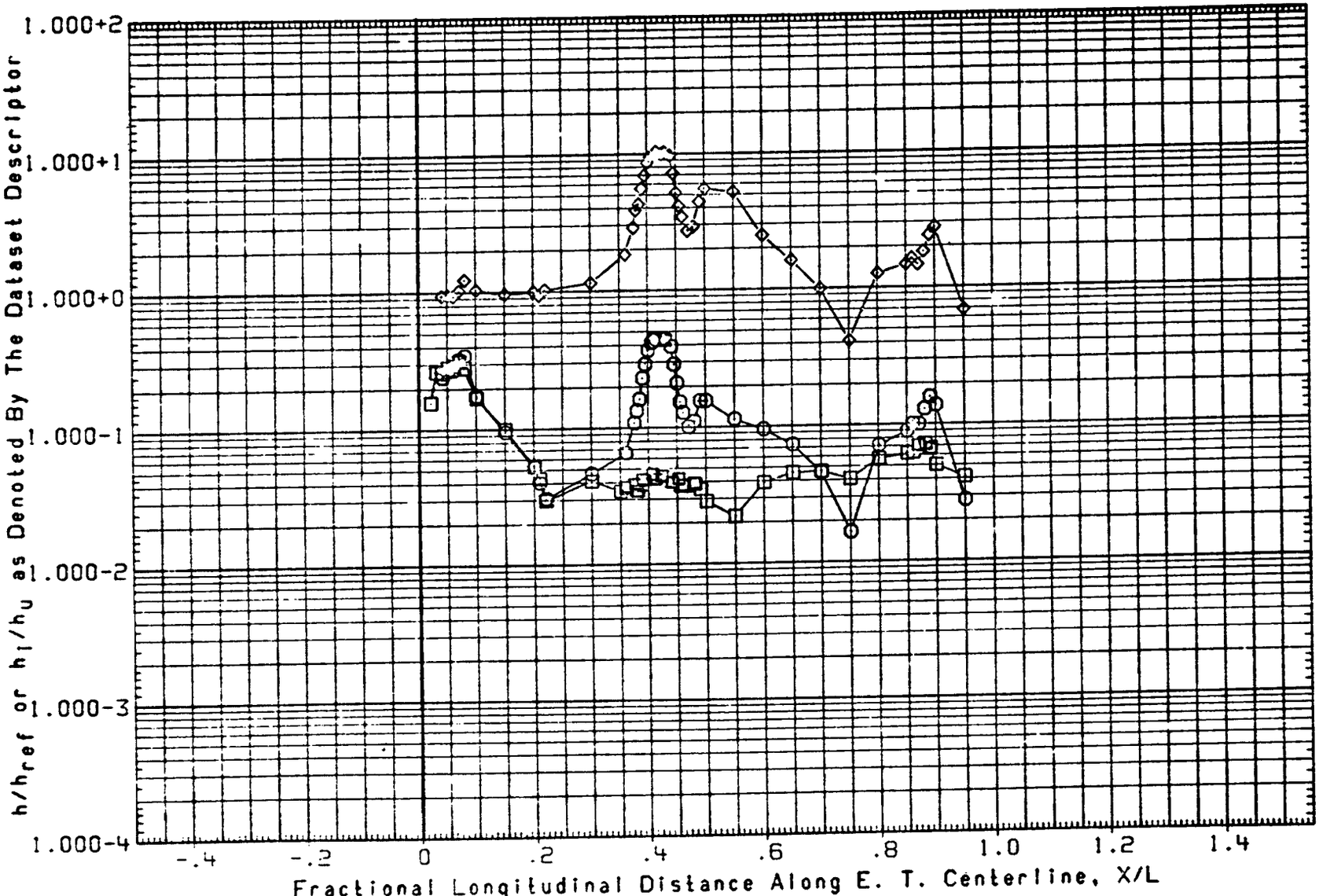


FIGURE 8. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 10 BETA= -3

MACH = 3.510 ALPHA = 10.000 PHI = .000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F43)	○	IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	10.000	-3.000	5.000
(BV7F19)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	10.000	-3.000	5.000
(JV7F43)	◇	IH41(AEDC V41A-A4A) O T S / T (ET DATA) HI/HU	10.000	-3.000	5.000

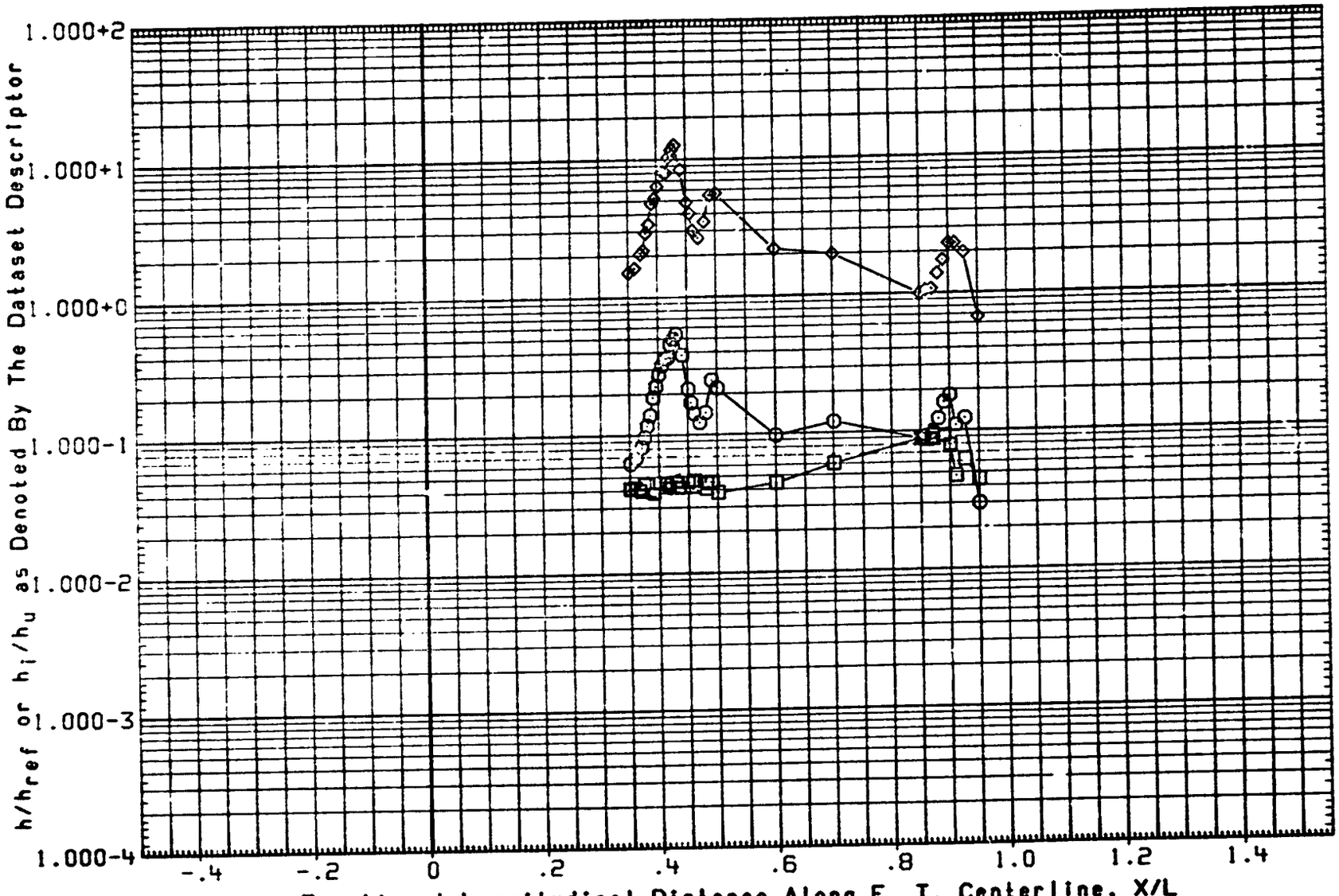


FIGURE 8. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 10 BETA= -3

MACH = 3.510 ALPHA = 10.000 PHI = 11.250

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F43)	○	IH+1(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	10.000	-3.000	5.000
(BV7F19)	□	IH+1(AEDC V41A-A4A) T3 NIPPLE NOSE ET	10.000	-3.000	5.000
(JV7F43)	◇	IH+1(AEDC V41A-A4A) O T S / T (ET DATA) HI/HU	10.000	-3.000	5.000

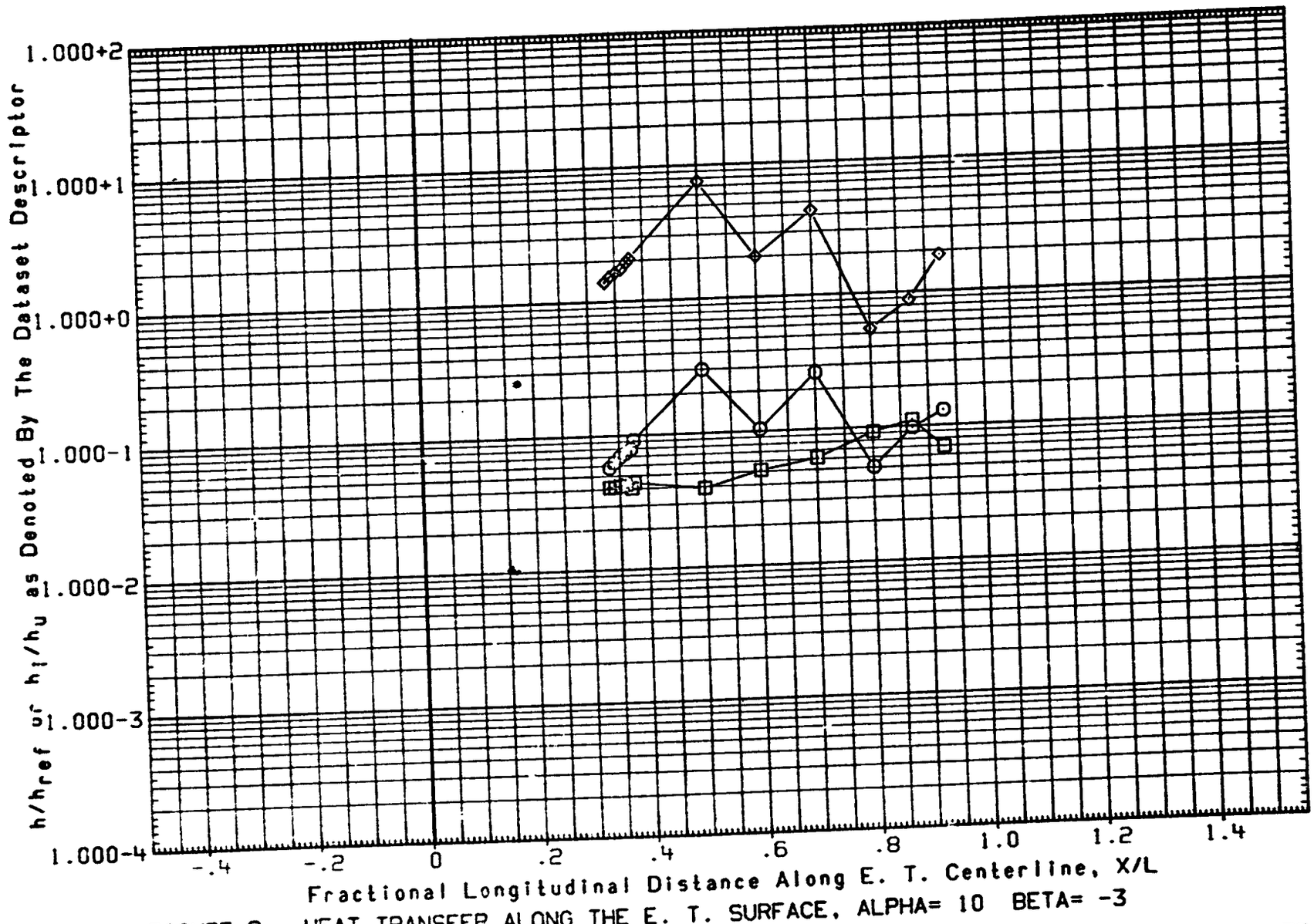


FIGURE 8. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 10 BETA= -3

MACH = 3.510 ALPHA = 10.000 PHI = 17.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F43)	○	IH+1(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	10.000	-3.000	5.000
(BV7F19)	□	IH+1(AEDC V41A-A4A) T3 NIPPLE NOSE ET	10.000	-3.000	5.000
(JV7F43)	◇	IH+1(AEDC V41A-A4A) O T S / T (ET DATA) HI/HU	10.000	-3.000	5.000

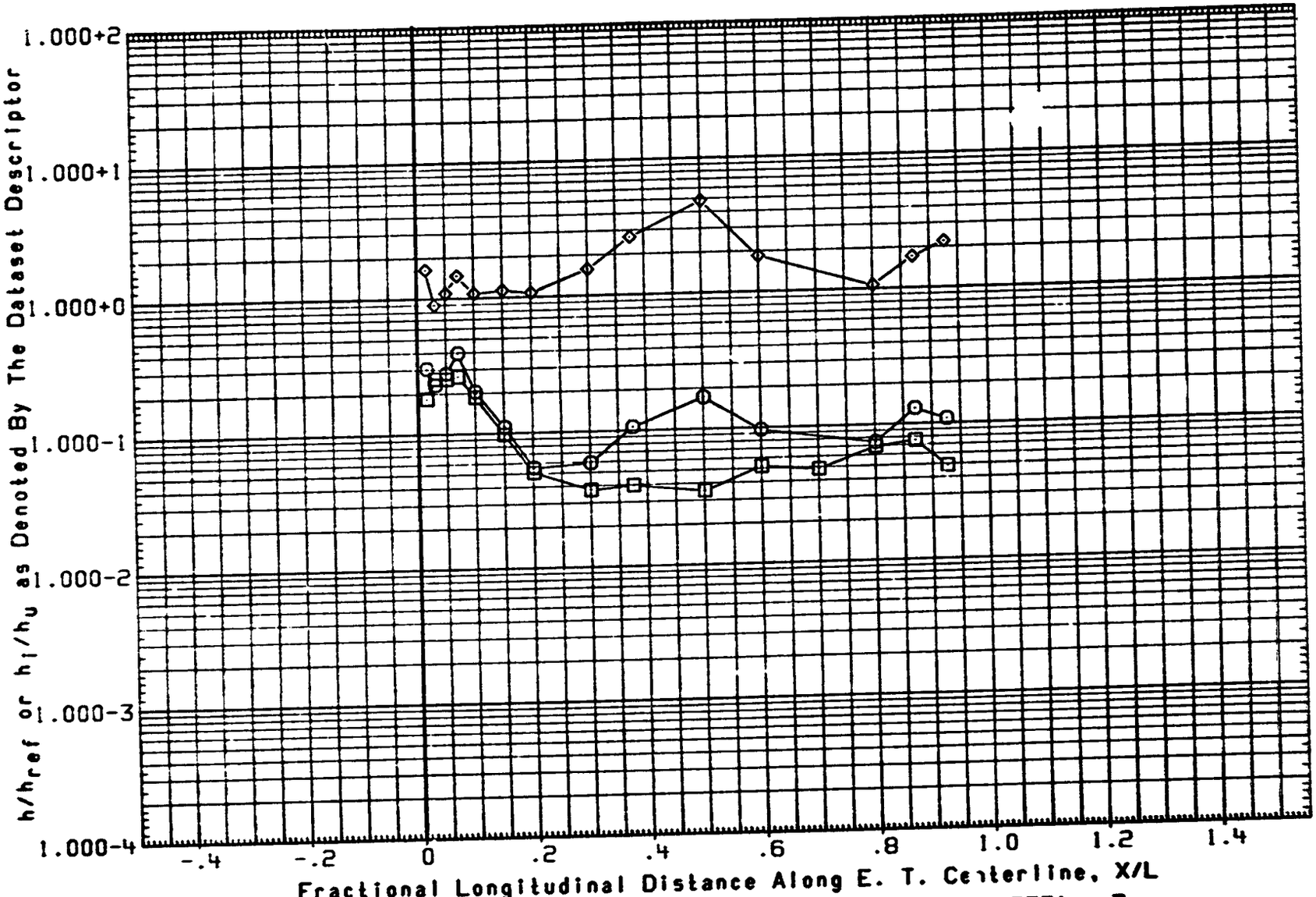


FIGURE 8. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 10 BETA= -3

MACH = 3.510 ALPHA = 10.000 PHI = 29.800

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F43)	○	IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	10.000	-3.000	5.000
(BV7F19)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	10.000	-3.000	5.000
(JV7F43)	◇	IH41(AEDC V41A-A4A) O T S / T (ET DATA) HI/HU	10.000	-3.000	5.000

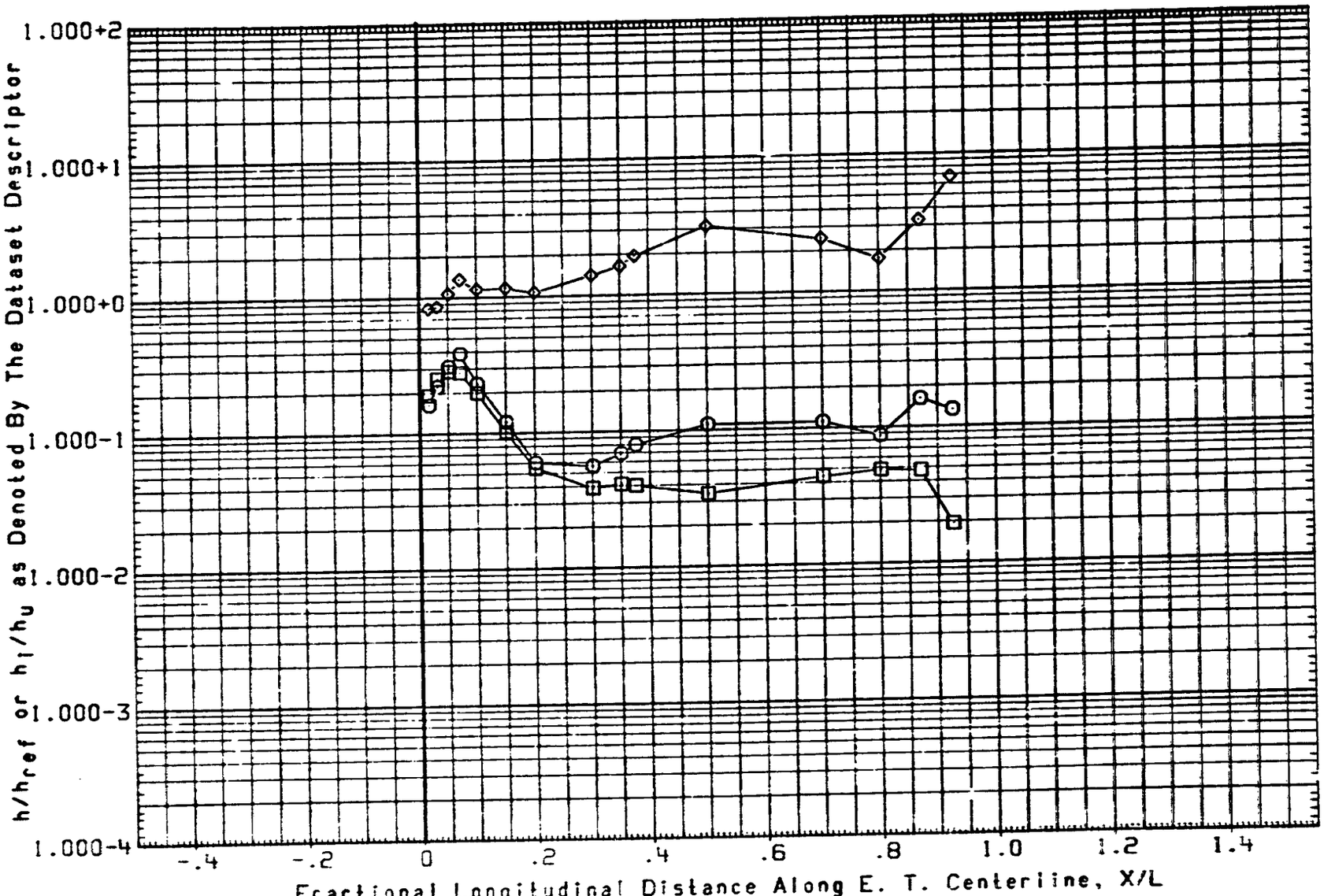


FIGURE 8. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 10 BETA= -3

MACH = 3.510 ALPHA = 10.000 PHI = 37.700

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F43)	○	IH+I(AEDC V+IA-A+A) O T S (CONF'G 2) TANK DATA	10.000	-3.000	5.000
(BV7F19)	□	IH+I(AEDC V+IA-A+A) T3 NIPPLE NOSE ET	10.000	-3.000	5.000
(JV7F43)	◇	IH+I(AEDC V+IA-A+A) O T S / T (ET DATA) HI/HU	10.000	-3.000	5.000

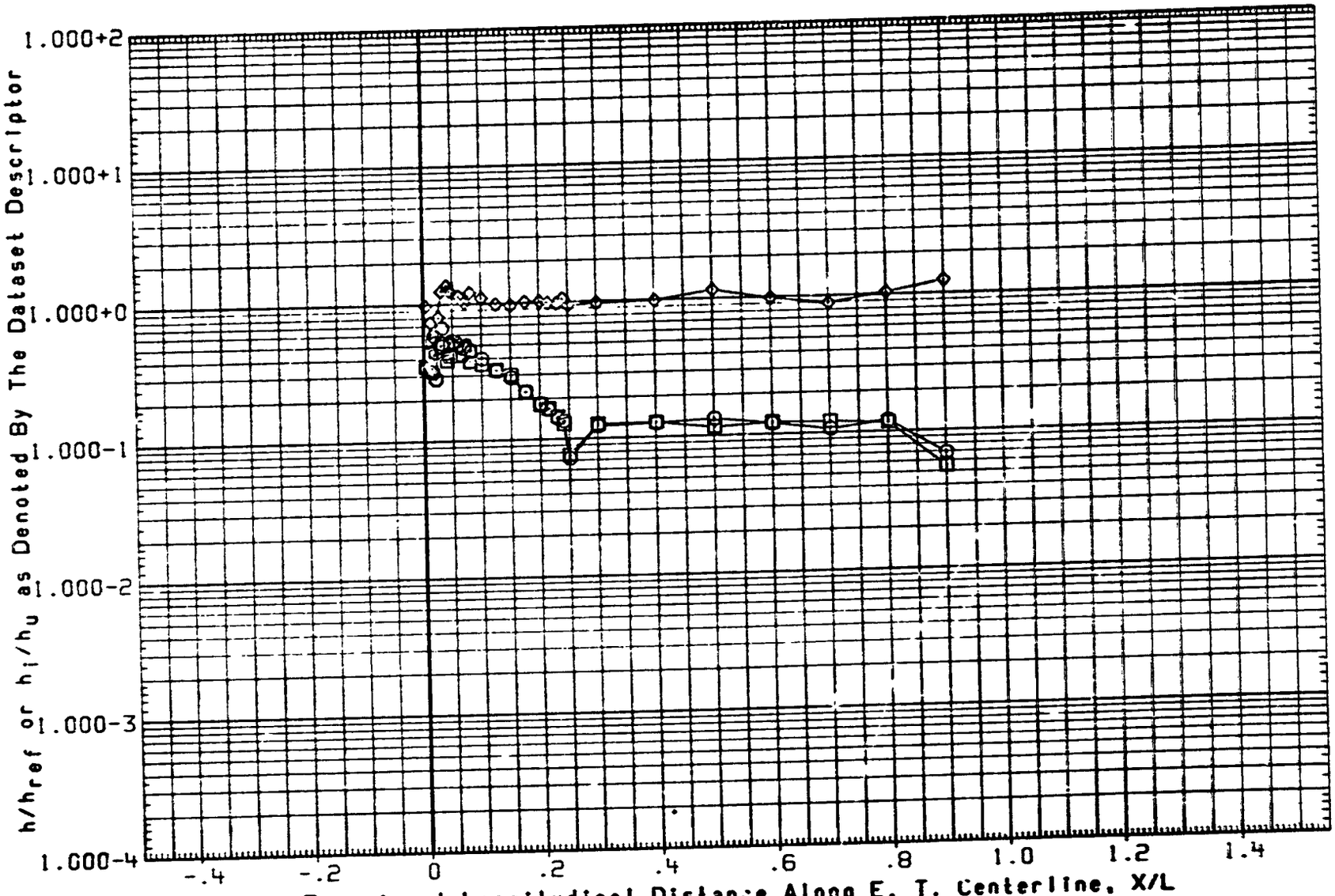


FIGURE 8. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 10 BETA= -3

MACH = 3.510 ALPHA = 10.000 PHI = 180.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F43)	○	IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	10.000	-3.000	5.000
(BV7F19)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	10.000	-3.000	5.000
(JV7F43)	◇	IH41(AEDC V41A-A4A) O T S / T (ET DATA) HI/HU	10.000	-3.000	5.000

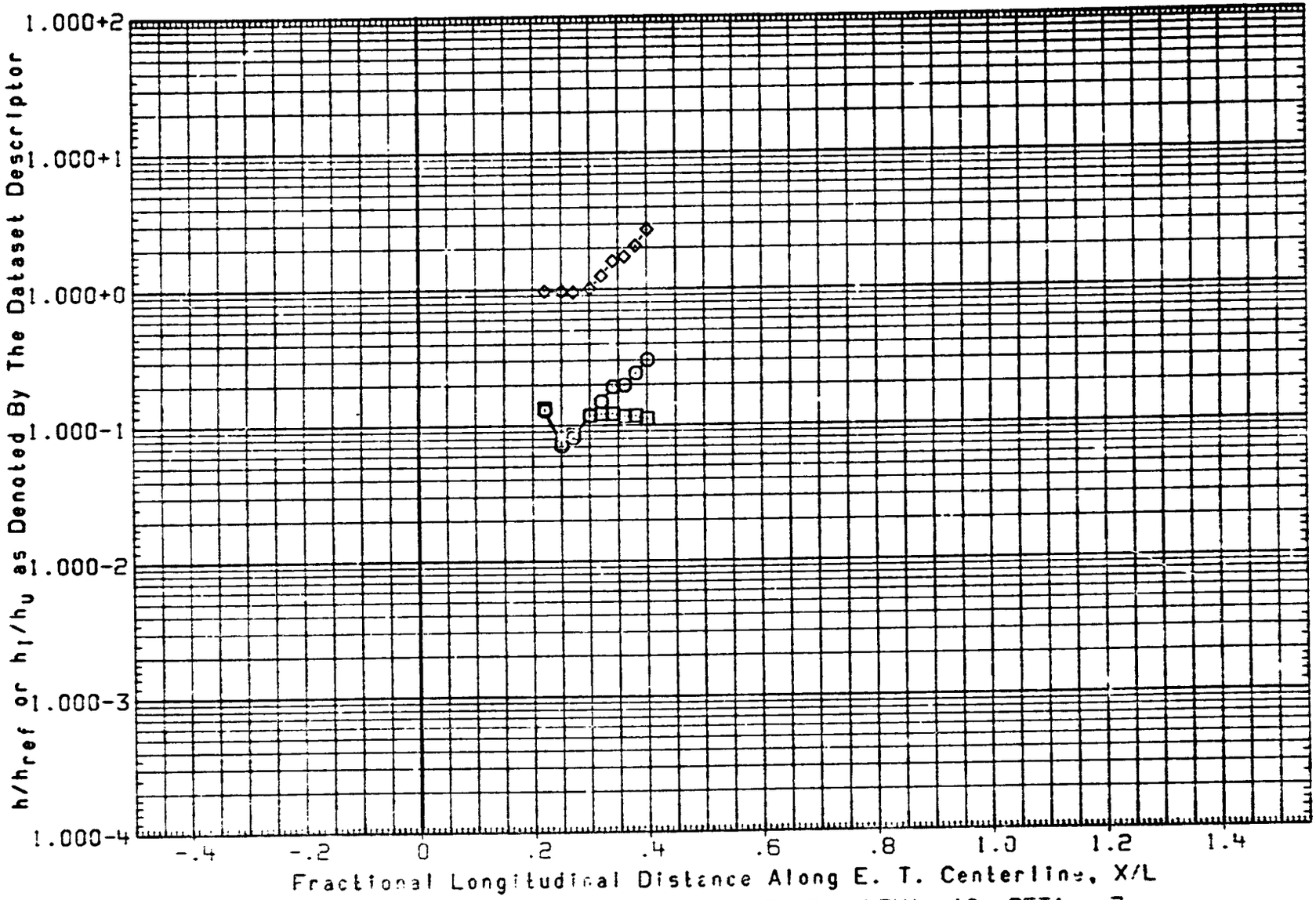


FIGURE 8. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 10 BETA= -3

MACH = 3.810 ALPHA = 10.000 PHI = 235.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F43)	○	IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	10.000	-3.000	5.000
(BV7F19)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	10.000	-3.000	5.000
(JV7F43)	◇	IH41(AEDC V41A-A4A) O T S / T (ET DATA) HI/HU	10.000	-3.000	5.000

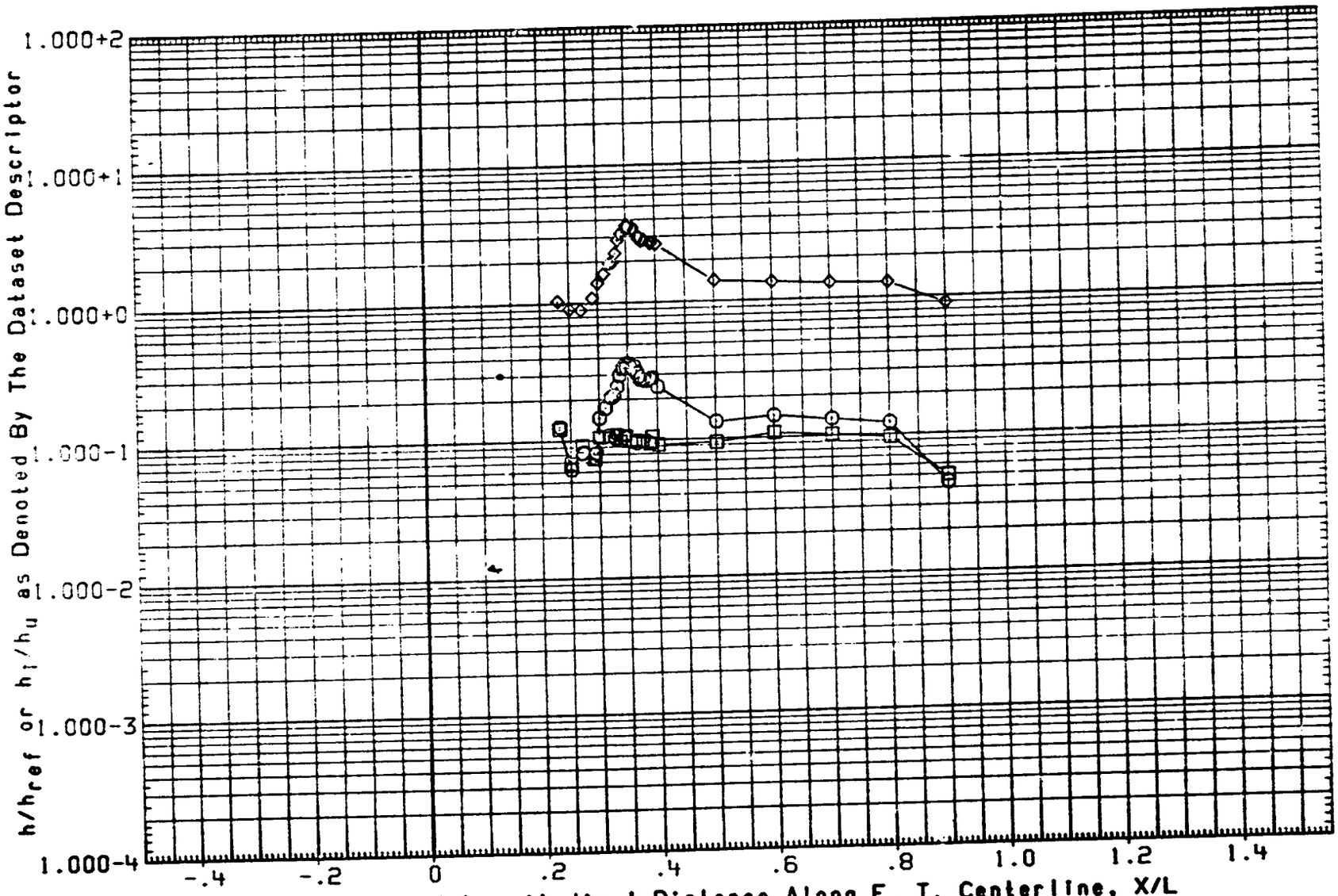


FIGURE 8. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 10 BETA= -3

MACH = 3.510 ALPHA = 10.000 PHI = 247.500

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F43)	○	IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	10.000	-3.000	5.000
(BV7F19)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	10.000	-3.000	5.000
(JV7F43)	◇	IH41(AEDC V41A-A4A) O T S / T (ET DATA) HI/HU	10.000	-3.000	5.000

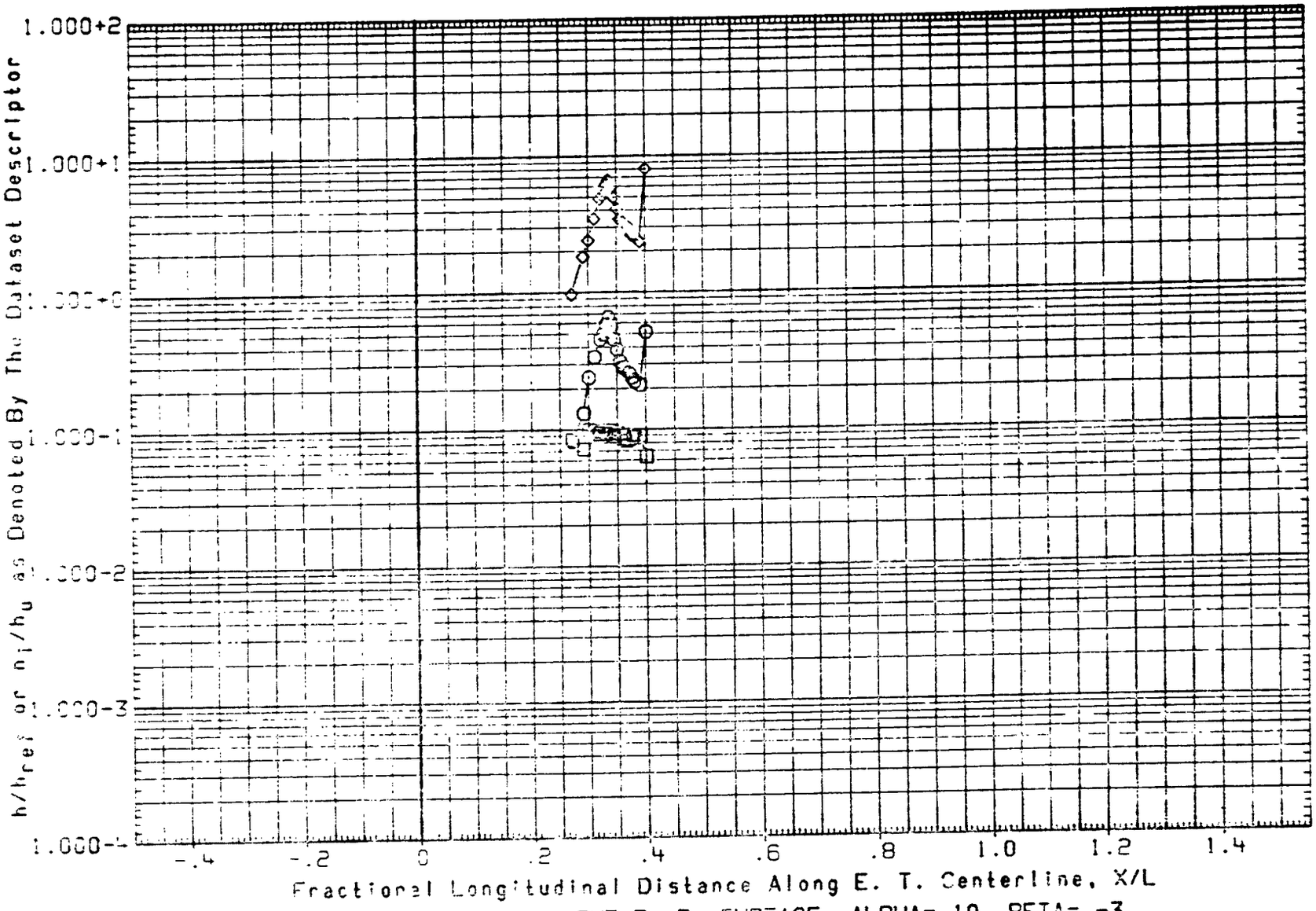


FIGURE 8. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 10 BETA= -3

MACH = 8.610 ALPHA = 10.000 PHI = 258.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F43)	○	IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	10.000	-3.000	5.000
(BV7F19)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	10.000	-3.000	5.000
(JV7F43)	◇	IH41(AEDC V41A-A4A) O T S / T (ET DATA) HI/HU	10.000	-3.000	5.000

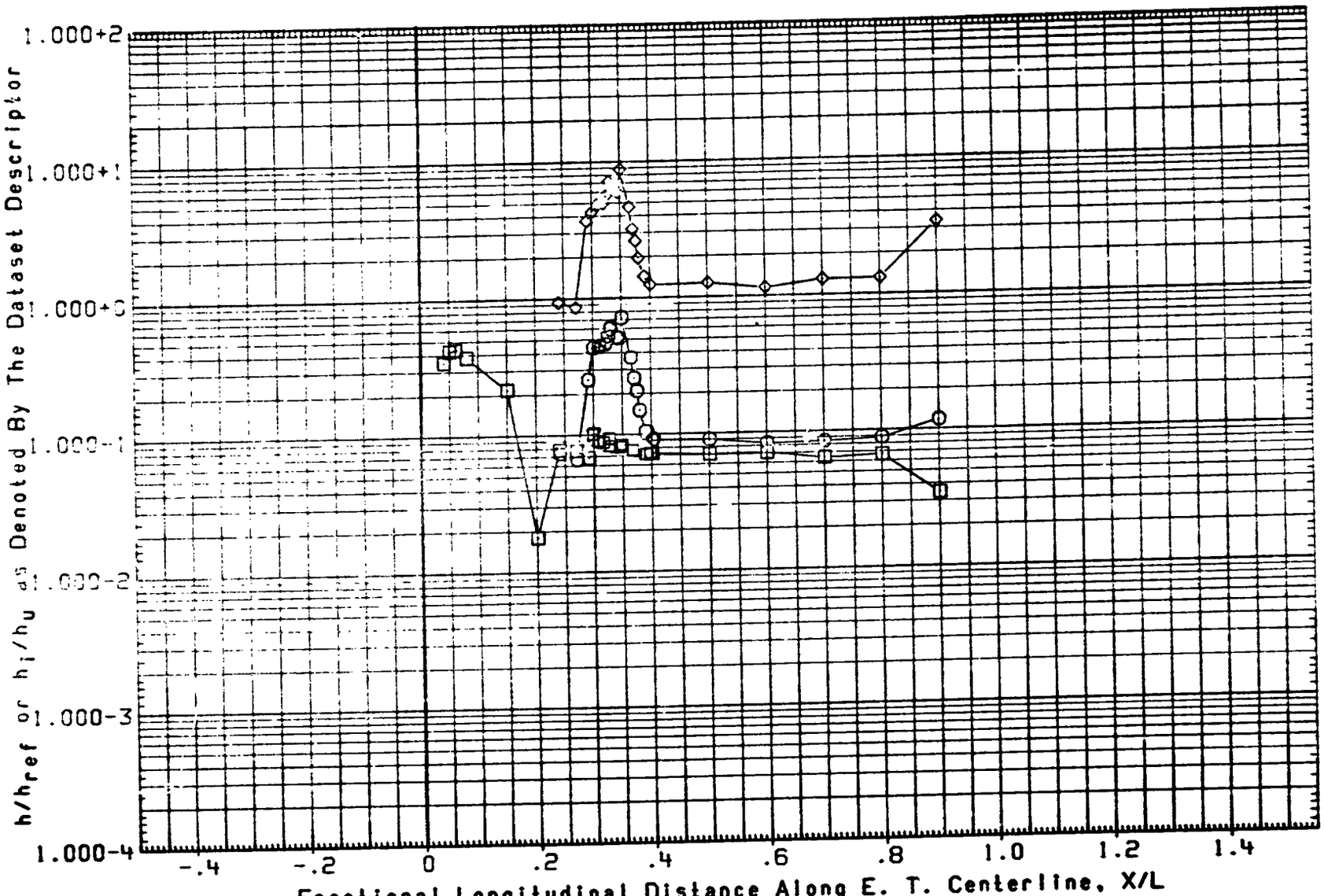


FIGURE 8. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 10 BETA= -3

MACH = 3.510 ALPHA = 10.000 PHI = 270.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F43)	○	IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	10.000	-3.000	5.000
(BV7F19)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	10.000	-3.000	5.000
(JV7F43)	◇	IH41(AEDC V41A-A4A) O T S / T (ET DATA) HI/HU	10.000	-3.000	5.000

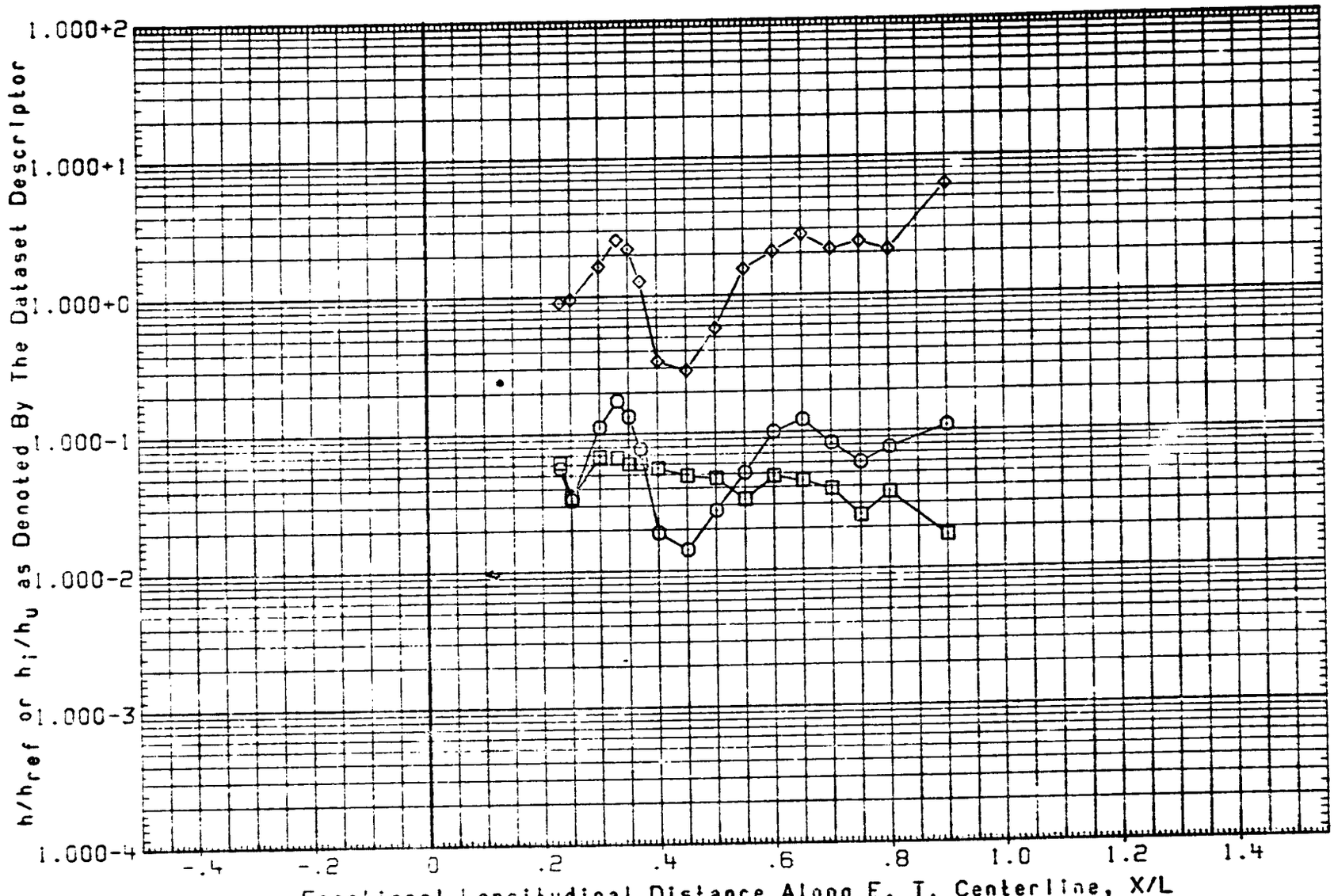


FIGURE 8. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 10 BETA= -3

MACH = 3.510 ALPHA = 10.000 PHI = 292.500

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F43)	○	IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	10.000	-3.000	5.000
(BV7F19)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	10.000	-3.000	5.000
(JV7F43)	◇	IH41(AEDC V41A-A4A) O T S / T (ET DATA) HI/HU	10.000	-3.000	5.000

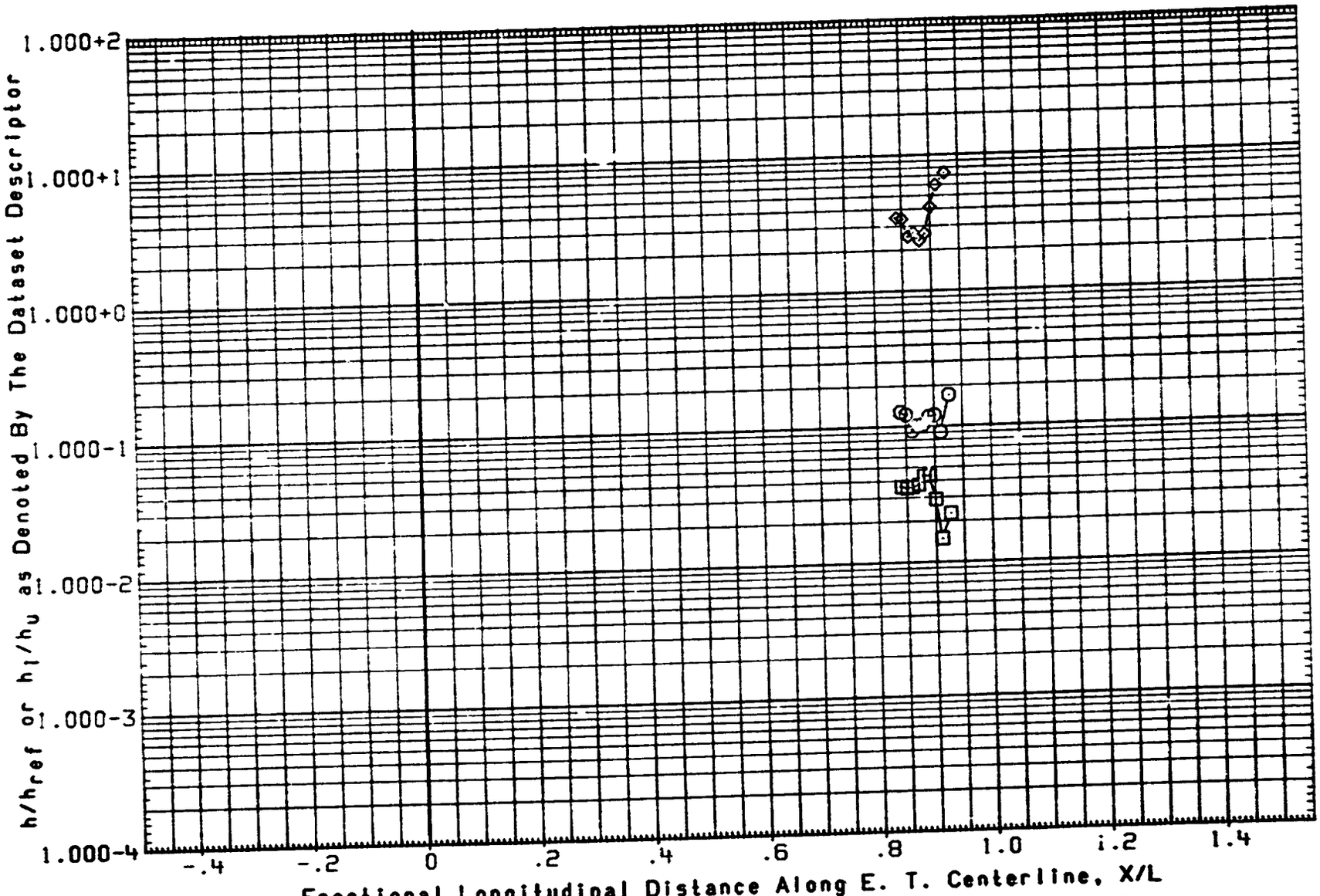


FIGURE 8. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 10 BETA= -3

MACH = 3.510 ALPHA = 10.000 PHI = 305.400

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F43)	○	IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	10.000	-3.000	5.000
(BV7F19)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	10.000	-3.000	5.000
(JV7F43)	◇	IH41(AEDC V41A-A4A) O T S / T (ET DATA) HI/HU	10.000	-3.000	5.000

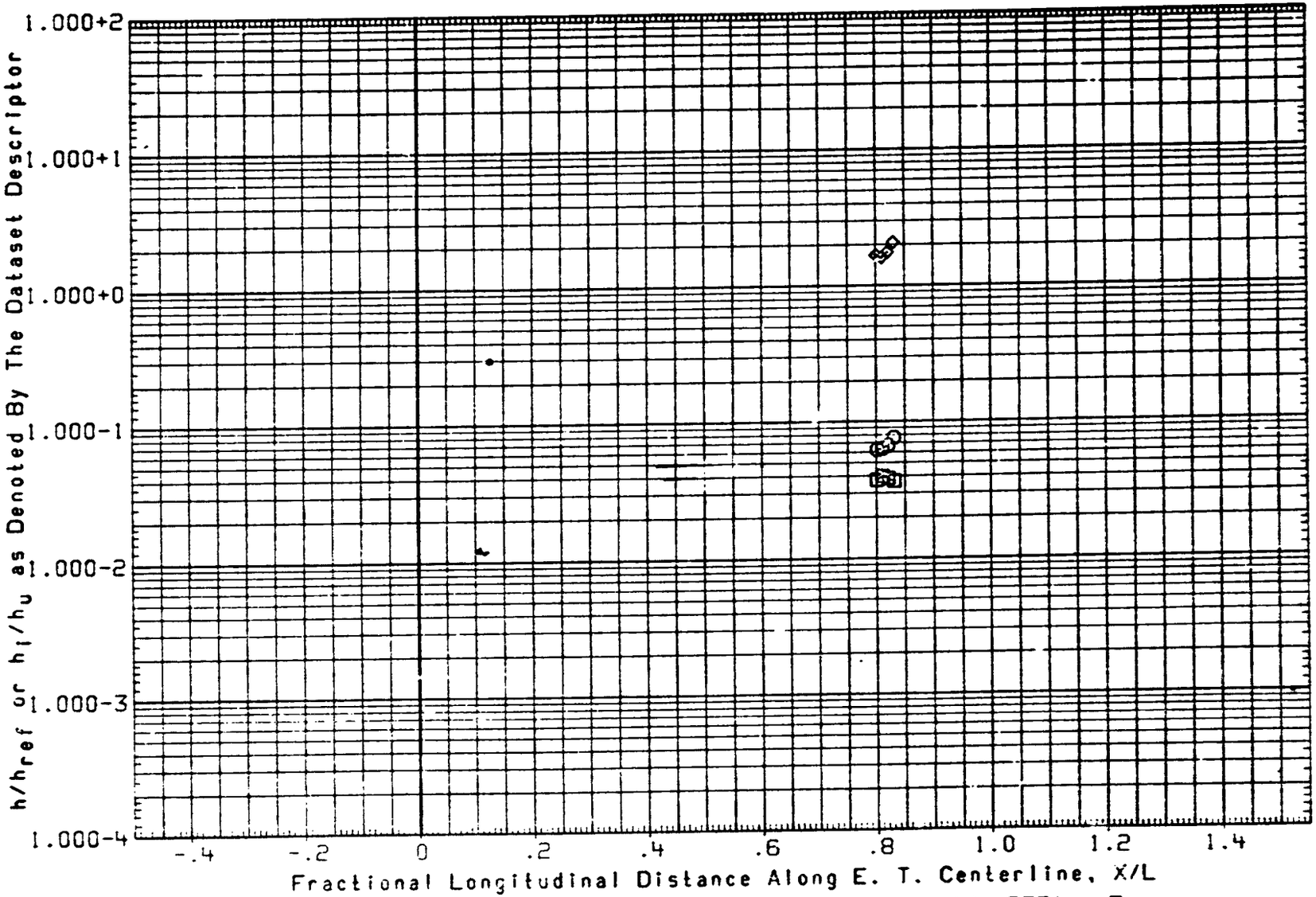


FIGURE 6. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 10 BETA= -3

MACH = 8.510 ALPHA = 10.000 PHI = 309.300

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F43)	○	IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA	10.000	-3.000	5.000
(BV7F19)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	10.000	-3.000	5.000
(JV7F43)	◇	IH41(AEDC V41A-A4A) O T S / T (ET DATA) HI/HU	10.000	-3.000	5.000

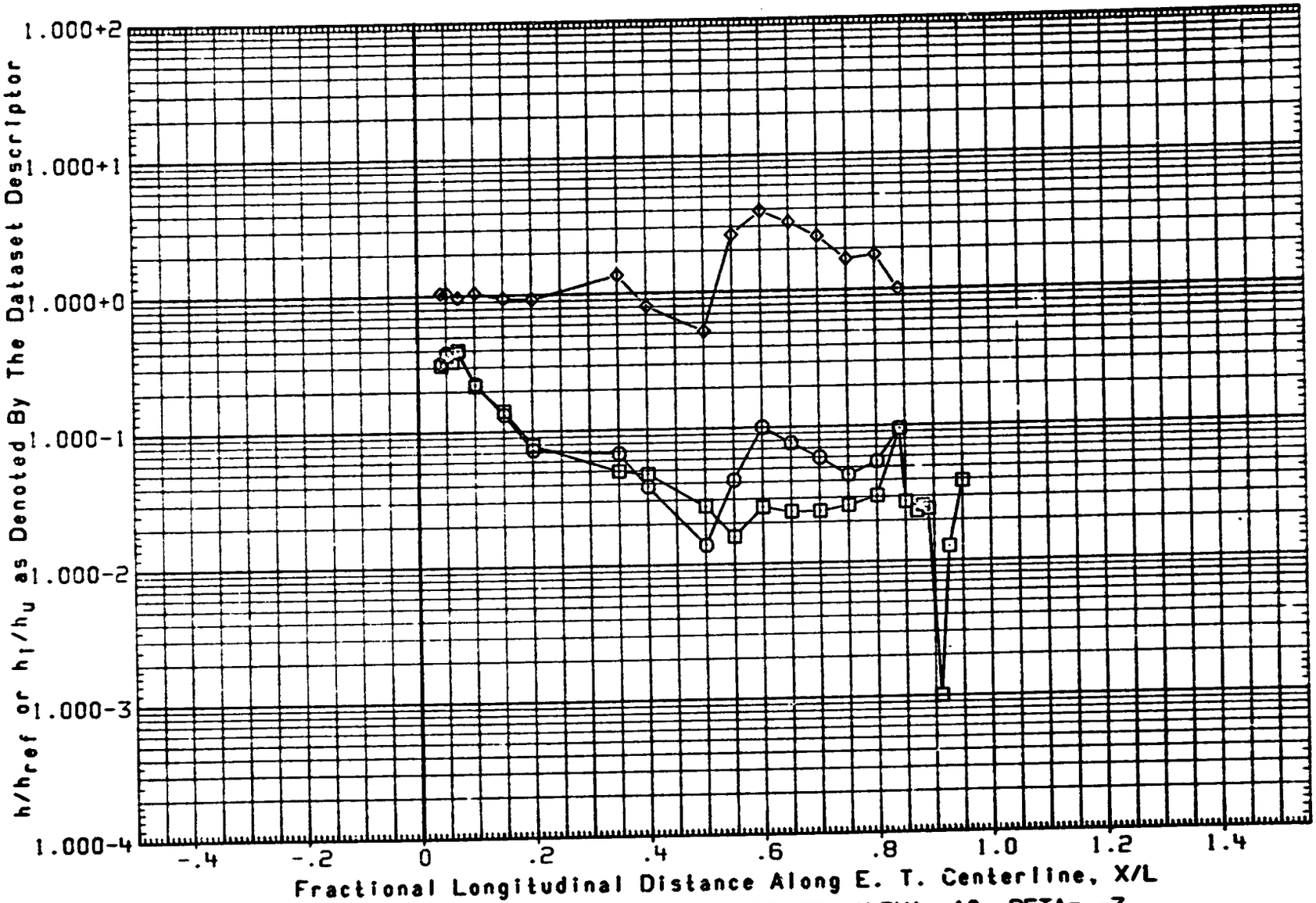


FIGURE 8. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 10 BETA= -3

MACH = 3.510 ALPHA = 10.000 PHI = 315.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F43)	○	DATA NOT AVAILABLE	10.000	-3.000	5.000
(BV7F19)	□	IH+1(AEDC V41A-A4A) T3 NIPPLE NOSE ET	10.000	-3.000	5.000
(JV7F43)	◇	DATA NOT AVAILABLE	10.000	-3.000	5.000

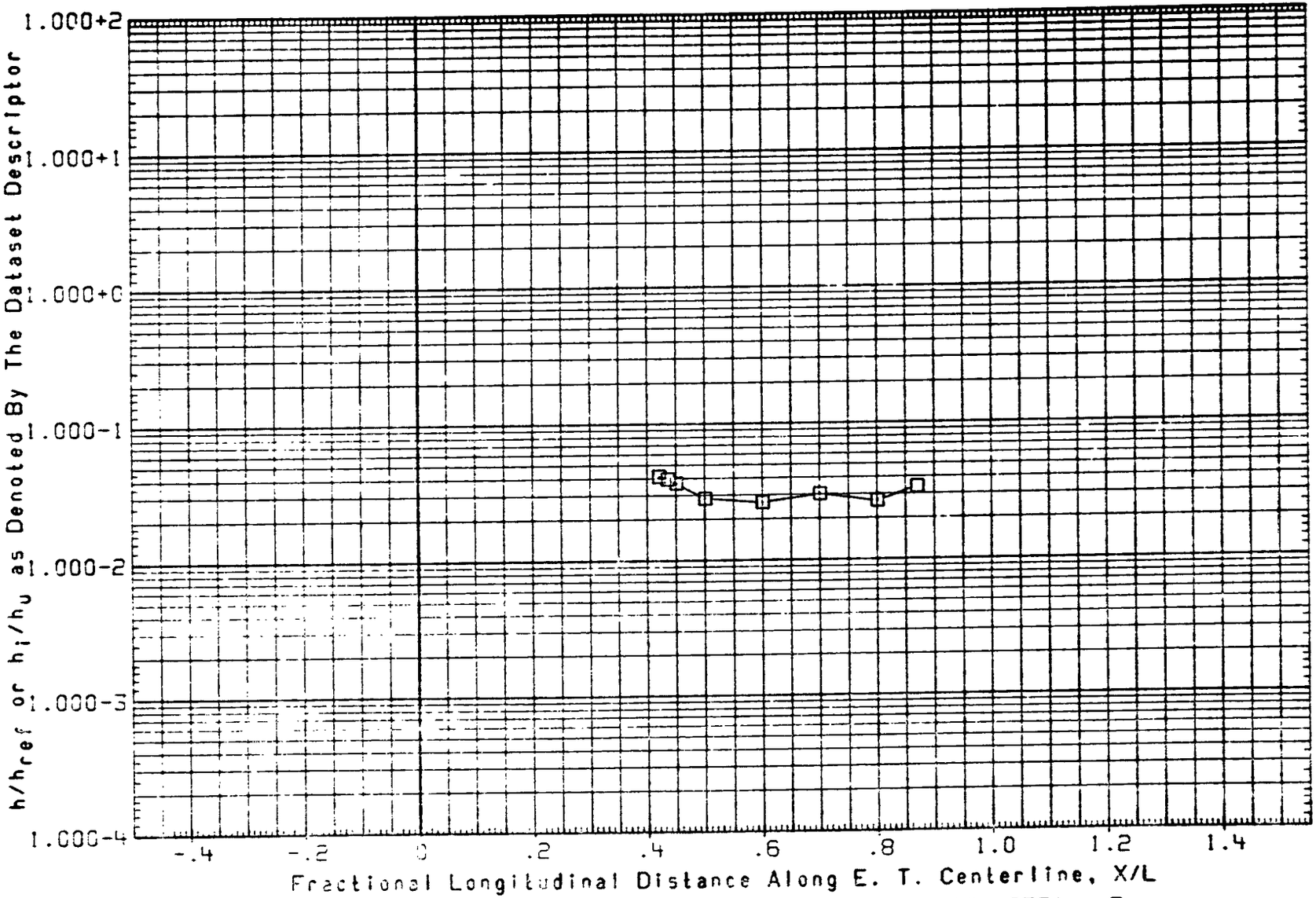


FIGURE 8. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 10 BETA= -3

MACH = 3.510 ALPHA = 10.000 PHI = 322.300

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F43)	○	DATA NOT AVAILABLE	10.000	-3.000	5.000
(BV7F19)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET	10.000	-3.000	5.000
(JV7F43)	◇	DATA NOT AVAILABLE	10.000	-3.000	5.000

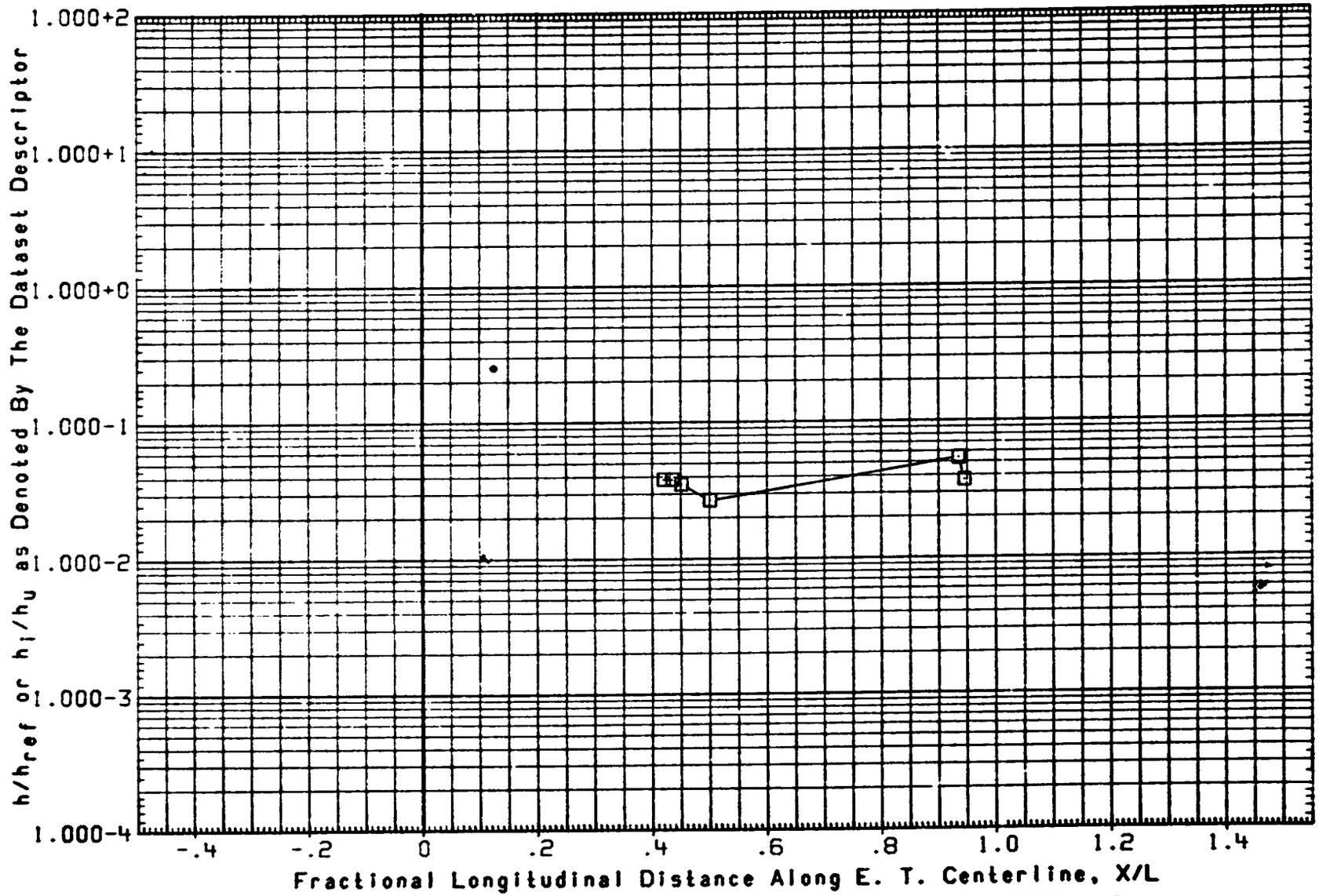


FIGURE 8. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 10 BETA= -3

MACH = 3.510 ALPHA = 10.000 PHI = 334.980

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F43)	○	DATA NOT AVAILABLE	10.000	-3.000	5.000
(BV7F19)	□	IH+1(AEDC V+1A-A+A) T3 NIPPLE NOSE ET,	10.000	-3.000	5.000
(JV7F43)	◇	DATA NOT AVAILABLE	10.000	-3.000	5.000

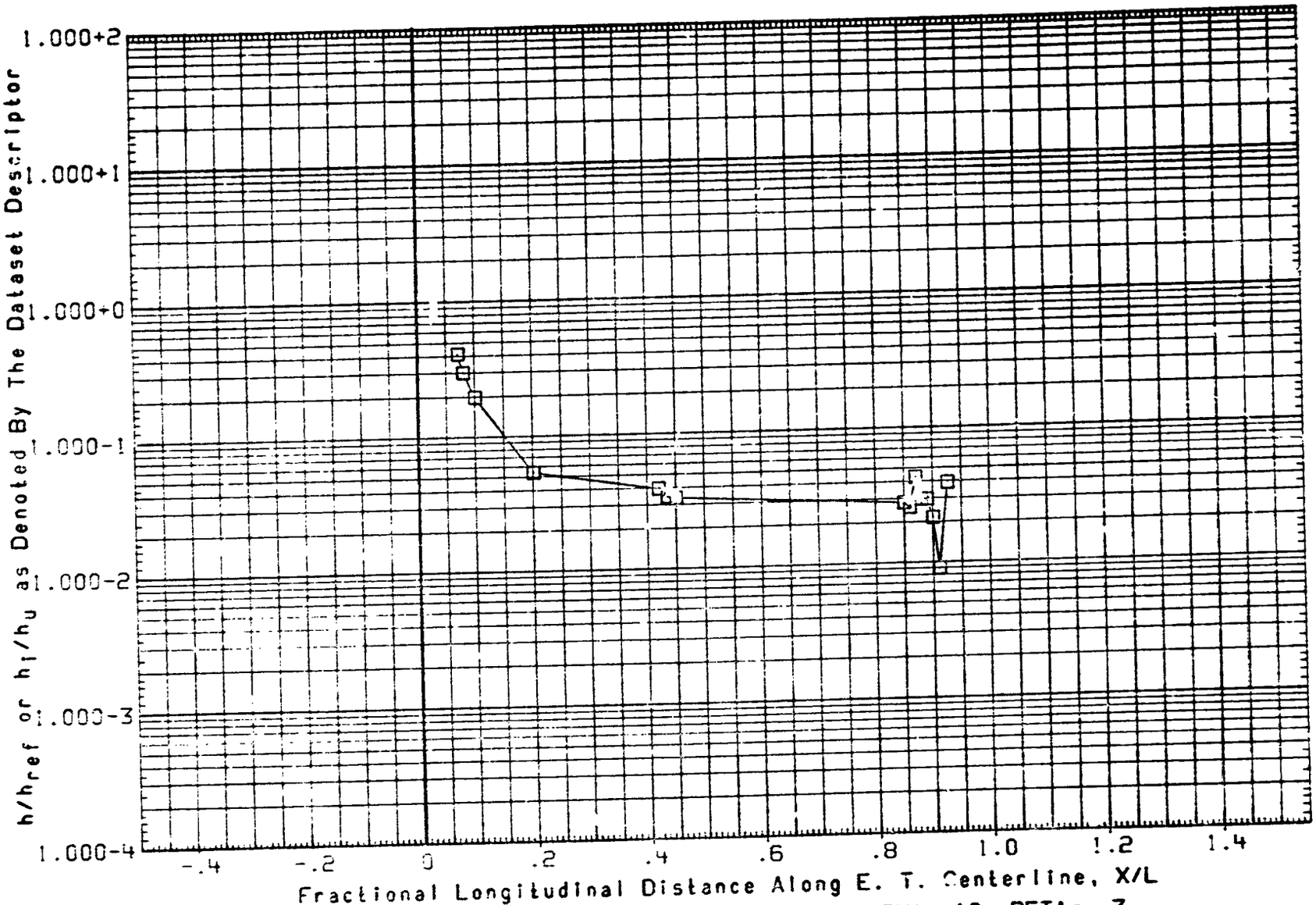


FIGURE 8. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 10 BETA= -3

MACH = 3.510 ALPHA = 10.000 PHI = 337.500

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	RN/L
(BV7F43)	○	DATA NOT AVAILABLE	10.000	-3.000	5.000
(BV7F19)	□	(HH1(AEDC V41A-A4A) T3 NIPPLE NOSE ET	10.000	-3.000	5.000
(JV7F43)	◇	DATA NOT AVAILABLE	10.000	-3.000	5.000

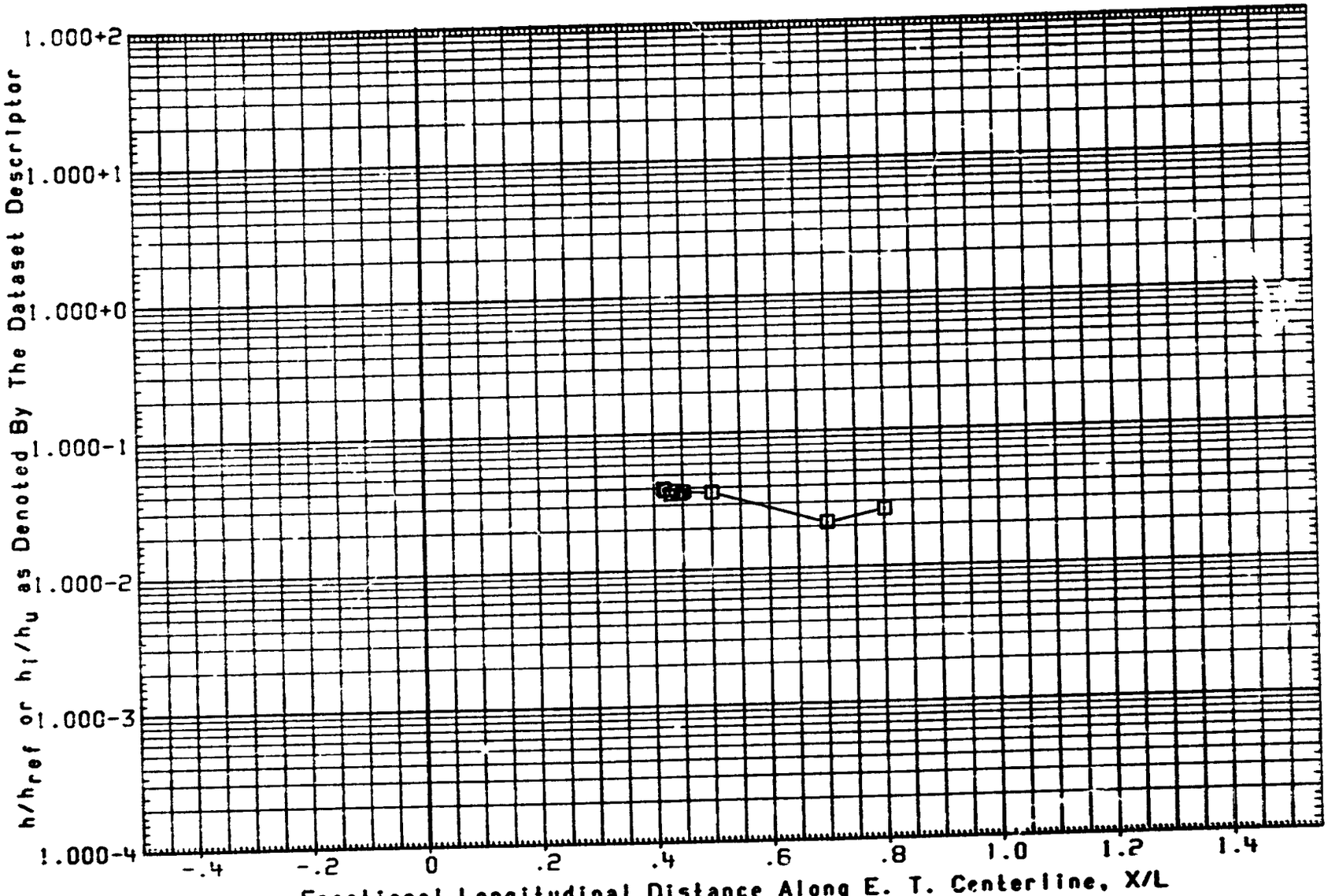


FIGURE 8. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 10 BETA= -3

MACH = 3.510 ALPHA = 10.000 PHI = 343.120

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BV7F43)	○	DATA NOT AVAILABLE
(BV7F19)	□	IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET
(JV7F43)	◇	DATA NOT AVAILABLE

ALPHA	BETA	RN/L
10.000	-3.000	5.000
10.000	-3.000	5.000
10.000	-3.000	5.000

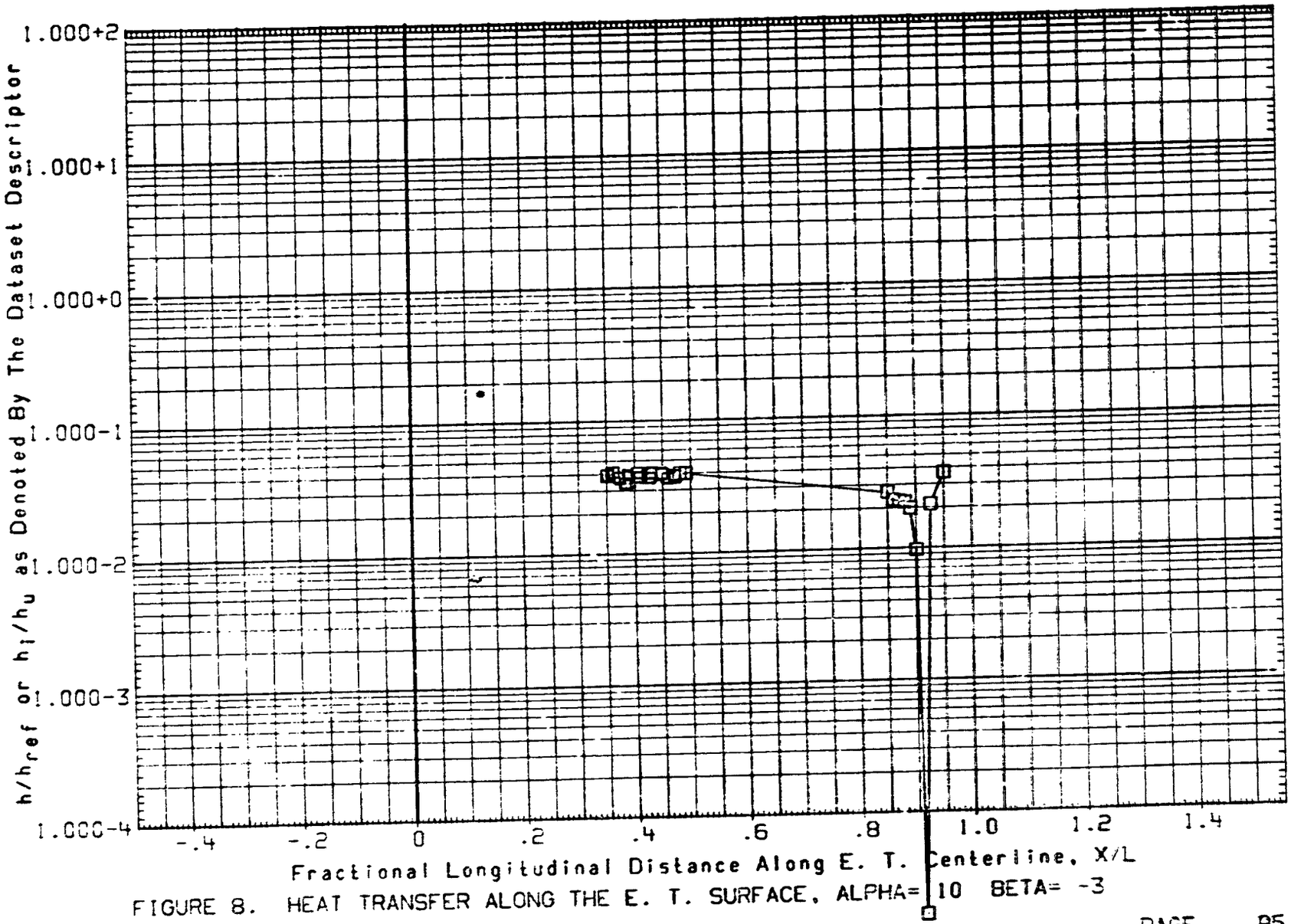


FIGURE 8. HEAT TRANSFER ALONG THE E. T. SURFACE, ALPHA= 10 BETA= -3

MACH = 3.510 ALPHA = 10.000 PHI = 348.000

APPENDIX

TABULATED SOURCE DATA

Note:

The tab-listing data presented has phi of 0° at the top centerline of the tank.

Tabulations of plotted data are available on request from Data Management Services.

AVAILABILITY OF COPY
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EXTERNAL TANK

PARAMETRIC DATA

ALPHA = .0000 BETA = .0000 GRIT = 1.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
1	5.500	4.981	.0000	.0000	.0000	177.7	.1910	741.0	105.1	4.044	2762.	.1525-03
2	5.500	4.973	-.1000-01	.0000	.0000	177.7	.1910	741.0	105.2	4.044	2764.	.1524-03
3	5.500	4.923	-.1000-01	.0000	.0000	177.4	.1910	746.0	105.8	4.039	2772.	.1513-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
1	.8458-07	.4474-01	.1363-01
2	.8468-07	.4474-01	.1364-01
3	.8517-07	.4475-01	.1370-01

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
2	.00000	.40000-01	737.00	.1798	.1464	.1754	.9556	.6551-02	.7846-02	1.308	8.554	541.8
2	.00000	.45000-01	738.00	.1792	.1459	.1761	.9538	.6528-02	.7879-02	1.304	8.654	541.8
2	.00000	.50000-01	739.00	.1306	.1057	.1315	.9486	.4729-02	.5882-02	.9190	6.173	547.2
2	.00000	.70000-01	740.00	.2076	.1672	.2123	.9453	.7482-02	.9501-02	1.427	9.629	550.8
2	.00000	.80000-01	741.00	.2708	.2139	.2826	.9422	.9572-02	.1264-01	1.689	12.17	565.0
2	.00000	.10000+00	742.00	.2534	.2029	.2721	.9363	.9076-02	.1217-01	1.686	11.22	555.7
2	.00000	.12500	743.00	.1807	.1444	.2013	.9297	.6463-02	.9006-02	1.194	8.634	556.8
2	.00000	.15000	744.00	.1282	.1037	.1462	.9240	.4642-02	.6541-02	.9010	6.260	547.4
2	.00000	.17500	745.00	.8130-01	.6640-01	.9430-01	.9193	.2973-02	.4218-02	.6010	4.531	539.3
2	.00000	.20000	746.00	.5220-01	.4280-01	.6140-01	.9158	.1916-02	.2747-02	.3950	2.844	535.2
2	.00000	.21500	747.00	.4330-01	.3560-01	.5130-01	.9143	.1594-02	.2294-02	.3320	2.319	533.1
2	.00000	.23000	748.00	.2930-01	.2410-01	.3490-01	.9133	.1079-02	.1561-02	.2250	1.671	533.3
2	.00000	.24000	749.00	.2370-01	.1950-01	.2820-01	.9130	.8708-03	.1261-02	.1820	1.380	532.9
2	.00000	.25000	750.00	.9900-02	.8200-02	.1180-01	.9130	.3655-03	.5264-03	.7700-01	.6290	530.4
2	.00000	.30000	751.00	.2450-01	.2020-01	.2910-01	.9130	.9025-03	.1302-02	.1900	1.254	531.4
2	.00000	.35000	752.00	.3460-01	.2850-01	.4110-01	.9130	.1277-02	.1839-02	.2700	1.719	530.3
2	.00000	.40000	753.00	.3720-01	.3070-01	.4420-01	.9130	.1372-02	.1976-02	.2900	1.879	530.3
2	.00000	.50000	754.00	.3340-01	.2740-01	.3980-01	.9130	.1227-02	.1782-02	.2540	1.676	534.1

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F01)

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
2	.00000	.60000	755.00	.4600-01	.3770-01	.5490-01	.9130	.1686-02	.2457-02	.3470	2.23E	535.8
2	.00000	.70000	756.00	.4310-01	.3520-01	.5170-01	.9130	.1577-02	.2314-02	.3190	2.115	539.1
2	.00000	.80000	757.00	.2910-01	.2380-01	.3490-01	.9130	.1065-02	.1562-02	.2160	1.438	538.8
2	.00000	.90000	758.00	.9600-02	.7800-02	.1140-01	.9130	.3495-03	.5118-03	.7100-01	.4620	538.0
2	55.000	.22000	759.00	.3600-01	.2970-01	.4260-01	.9139	.1329-02	.1905-02	.2810	2.108	530.1
2	55.000	.25000	760.00	.1480-01	.1220-01	.1740-01	.9130	.5465-03	.7804-03	.1180	.9310	526.3
2	55.000	.27000	761.00	.1420-01	.1180-01	.1690-01	.9130	.5271-03	.7542-03	.1130	.8490	527.3
2	55.000	.30000	762.00	.2610-01	.2160-01	.3100-01	.9130	.9667-03	.1386-02	.2060	1.252	528.1
2	55.000	.32000	763.00	.3080-01	.2540-01	.3650-01	.9130	.1136-02	.1634-02	.2420	1.445	528.8
2	55.000	.34000	764.00	.3250-01	.2680-01	.3850-01	.9130	.1199-02	.1724-02	.2540	1.523	529.4
2	55.000	.38000	766.00	.3640-01	.3000-01	.4320-01	.9130	.1342-02	.1931-02	.2840	1.739	530.1
2	55.000	.40000	767.00	.3510-01	.2900-01	.4170-01	.9130	.1296-02	.1866-02	.2740	1.727	530.1
2	67.500	.23000	768.00	.3580-01	.2950-01	.4240-01	.9133	.1320-02	.1896-02	.2790	2.096	529.9
2	67.500	.25000	769.00	.1420-01	.1180-01	.1680-01	.9130	.5277-03	.7531-03	.1140	.8940	525.9
2	67.500	.27000	770.00	.1910-01	.1580-01	.2270-01	.9130	.7086-03	.1014-02	.1520	1.119	527.2
2	67.500	.29000	771.00	.1870-01	.1540-01	.2210-01	.9130	.6906-03	.9868-03	.1480	.9290	526.6
2	67.500	.30000	772.00	.2480-01	.2050-01	.2940-01	.9130	.9166-03	.1314-02	.1960	1.207	528.1
2	67.500	.31000	773.00	.2910-01	.2410-01	.3450-01	.9130	.1076-02	.1544-02	.2290	1.402	528.5
2	67.500	.32000	774.00	.3150-01	.2600-01	.3730-01	.9130	.1164-02	.1669-02	.2490	1.507	528.2
2	67.500	.32500	775.00	.3170-01	.2620-01	.3750-01	.9130	.1171-02	.1679-02	.2500	1.520	528.3
2	67.500	.33000	776.00	.3240-01	.2680-01	.3840-01	.9130	.1199-02	.1719-02	.2550	1.558	528.5
2	67.500	.33500	777.00	.3530-01	.2920-01	.4190-01	.9130	.1306-02	.1874-02	.2780	1.698	528.5
2	67.500	.34000	778.00	.3630-01	.3000-01	.4310-01	.9130	.1342-02	.1926-02	.2860	1.743	528.7
2	67.500	.34500	779.00	.3790-01	.3130-01	.4500-01	.9130	.1402-02	.2012-02	.2980	1.823	528.9
2	67.500	.35000	780.00	.3540-01	.2930-01	.4200-01	.9130	.1309-02	.1879-02	.2790	1.710	528.6
2	67.500	.35500	781.00	.3320-01	.2740-01	.3930-01	.9130	.1226-02	.1760-02	.2610	1.604	528.8
2	67.500	.36000	782.00	.3910-01	.3220-01	.4630-01	.9130	.1442-02	.2072-02	.3060	1.884	529.1
2	67.500	.36500	783.00	.3590-01	.2960-01	.4250-01	.9130	.1326-02	.1903-02	.2820	1.732	528.6
2	67.500	.37000	784.00	.3550-01	.2930-01	.4210-01	.9130	.1312-02	.1882-02	.2790	1.723	528.5
2	67.500	.37500	785.00	.3780-01	.3120-01	.4480-01	.9130	.1397-02	.2006-02	.2970	1.847	528.9
2	67.500	.38000	786.00	.3530-01	.2920-01	.4190-01	.9130	.1304-02	.1873-02	.2770	1.729	528.9
2	67.500	.39000	787.00	.3680-01	.3030-01	.4360-01	.9130	.1357-02	.1952-02	.2880	1.798	529.6
2	67.500	.40000	788.00	.3100-01	.2560-01	.3680-01	.9130	.1145-02	.1648-02	.2420	1.527	529.9
2	67.500	.50000	789.00	.3470-01	.2850-01	.4120-01	.9130	.1276-02	.1845-02	.2670	1.722	532.5
2	67.500	.60000	790.00	.3490-01	.2870-01	.4160-01	.9130	.1284-02	.1861-02	.2670	1.766	533.4
2	67.500	.70000	791.00	.3070-01	.2520-01	.3660-01	.9130	.1129-02	.1638-02	.2340	1.664	534.0
2	67.500	.80000	792.00	.3420-01	.2810-01	.4070-01	.9130	.1257-02	.1822-02	.2610	1.654	533.5
2	67.500	.90000	793.00	.1880-01	.1550-01	.2240-01	.9130	.6934-03	.1002-02	.1450	.9430	532.2
2	78.000	.27000	794.00	.2060-01	.1710-01	.2440-01	.9130	.7633-03	.1091-02	.1640	1.180	526.9
3	78.000	.30000	796.00	.2640-01	.2190-01	.3130-01	.9130	.9778-03	.1400-02	.2100	1.285	530.8
3	78.000	.31000	797.00	.2850-01	.2360-01	.3380-01	.9130	.1055-02	.1512-02	.2270	1.386	531.0
3	78.000	.32000	798.00	.3070-01	.2540-01	.3630-01	.9130	.1134-02	.1626-02	.2440	1.480	531.1
3	78.000	.32500	799.00	.3180-01	.2630-01	.3770-01	.9130	.1177-02	.1688-02	.2530	1.539	531.2

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F01)

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
3	78.000	.33000	900.00	.3340-01	.2760-01	.3960-01	.9130	.1237-02	.1773-02	.2650	1.617	531.2
3	78.000	.33500	901.00	.3400-01	.2810-01	.4030-01	.9130	.1255-02	.1801-02	.2690	1.637	531.8
3	78.000	.34000	802.00	.3370-01	.2780-01	.3990-01	.9130	.1245-02	.1786-02	.2670	1.627	531.4
3	78.000	.34500	803.00	.3490-01	.2880-01	.4130-01	.9130	.1289-02	.1849-02	.2760	1.688	531.5
3	78.000	.35000	804.00	.3510-01	.2900-01	.4160-01	.9130	.1296-02	.1860-02	.2780	1.697	531.6
3	78.000	.35500	805.00	.3750-01	.3090-01	.4440-01	.9130	.1385-02	.1986-02	.2970	1.813	531.5
3	78.000	.36000	806.00	.3590-01	.2640-01	.3790-01	.9130	.1180-02	.1695-02	.2520	1.543	532.3
3	78.000	.36500	807.00	.3610-01	.2980-01	.4280-01	.9130	.1335-02	.1916-02	.2860	1.756	531.8
3	78.000	.37000	808.00	.3750-01	.3100-01	.4450-01	.9130	.1387-02	.1990-02	.2970	1.627	531.9
3	78.000	.37500	809.00	.3730-01	.3080-01	.4430-01	.9130	.1379-02	.1980-02	.2950	1.816	532.0
3	78.000	.38000	810.00	.3580-01	.2960-01	.4250-01	.9130	.1324-02	.1900-02	.2830	1.753	531.9
3	78.000	.38500	811.00	.3630-01	.3000-01	.4310-01	.9130	.1341-02	.1928-02	.2860	1.775	532.6
3	78.000	.39000	812.00	.3710-01	.3060-01	.4400-01	.9130	.1369-02	.1967-02	.2920	1.812	532.5
3	78.000	.40000	813.00	.3290-01	.2710-01	.3890-01	.9133	.1213-02	.1742-02	.2590	1.895	532.6
3	90.000	.23000	814.00	.2530-01	.2090-01	.3000-01	.9130	.9355-03	.1342-02	.2000	1.632	531.8
3	90.000	.24000	816.00	.2230-01	.1850-01	.2640-01	.9130	.9276-03	.1181-02	.1800	1.288	528.9
3	90.000	.27000	817.00	.2380-01	.1970-01	.2810-01	.9130	.8802-03	.1257-02	.1910	1.195	529.3
3	90.000	.29000	818.00	.2670-01	.2210-01	.3170-01	.9130	.9890-03	.1417-02	.2130	1.310	530.8
3	90.000	.30000	819.00	.2820-01	.2330-01	.3330-01	.9130	.1041-02	.1491-02	.2240	1.367	531.0
3	90.000	.31000	820.00	.3150-01	.2600-01	.3730-01	.9130	.1165-02	.1671-02	.2500	1.521	531.5
3	90.000	.32000	821.00	.3010-01	.2490-01	.3570-01	.9130	.1114-02	.1597-02	.2390	1.454	531.1
3	90.000	.32500	822.00	.3370-01	.2780-01	.3990-01	.9130	.1245-02	.1784-02	.2670	1.628	531.2
3	90.000	.33000	823.00	.3430-01	.2830-01	.4060-01	.9130	.1268-02	.1817-02	.2730	1.666	530.9
3	90.000	.33500	824.00	.3520-01	.2910-01	.4160-01	.9130	.1302-02	.1862-02	.2810	1.708	530.1
3	90.000	.34000	825.00	.3700-01	.3060-01	.4380-01	.9130	.1368-02	.1961-02	.2930	1.787	531.3
3	90.000	.34500	826.00	.3690-01	.3050-01	.4370-01	.9130	.1366-02	.1957-02	.2930	1.786	531.2
3	90.000	.35000	828.00	.3820-01	.3150-01	.4520-01	.9130	.1410-02	.2023 02	.3020	1.834	531.8
3	90.000	.36000	830.00	.3790-01	.3130-01	.4490-01	.9130	.1401-02	.2008-02	.3000	1.835	531.4
3	90.000	.37000	831.00	.3780-01	.3120-01	.4470-01	.9130	.1397-02	.2002-02	.3000	1.841	531.3
3	90.000	.37500	832.00	.3680-01	.3040-01	.4360-01	.9130	.1359-02	.1950-02	.2910	1.788	531.7
3	90.000	.38000	833.00	.4010-01	.3310-01	.4750-01	.9130	.1481-02	.2127-02	.3170	1.956	532.1
3	90.000	.39000	834.00	.3700-01	.3060-01	.4390-01	.9130	.1367-02	.1963-02	.2920	1.819	532.1
3	90.000	.40000	835.00	.3950-01	.3250-01	.4710-01	.9130	.1455-02	.2106-02	.3060	1.943	535.8
3	90.000	.50000	836.00	.4640-01	.3810-01	.5520-01	.9130	.1706-02	.2471-02	.3570	2.393	536.3
3	90.000	.60000	837.00	.3310-01	.2720-01	.3940-01	.9130	.1217-02	.1763-02	.2550	1.805	536.3
3	90.000	.70000	838.00	.3400-01	.2800-01	.4050-01	.9130	.1254-02	.1811-02	.2640	1.651	535.1
3	90.000	.80000	839.00	.2140-01	.1770-01	.2550-01	.9130	.7905-03	.1140-02	.1670	1.077	534.0
3	90.000	.90000	840.00	.2070-01	.1710-01	.2450-01	.9133	.7633-03	.1098-02	.1620	1.315	533.6
3	112.50	.23000	842.00	.1440-01	.1190-01	.1700-01	.9130	.5342-03	.7623-03	.1160	.8170	529.0
3	112.50	.27000	843.00	.3050-01	.2520-01	.3610-01	.9130	.1128-02	.1617-02	.2420	1.453	531.1
3	112.50	.33000	844.00	.2660-01	.2190-01	.3150-01	.9130	.9817-03	.1408-02	.2110	1.279	531.4
3	112.50	.33000	845.00	.3870-01	.3200-01	.4590-01	.9130	.1431-02	.2055-02	.3060	1.886	532.3
3	112.50	.35000	846.00	.3990-01	.3300-01	.4740-01	.9130	.1475-02	.2119-02	.3150	1.955	532.4
3	112.50	.37000	846.00	.3990-01	.3300-01	.4740-01	.9130	.1475-02	.2119-02	.3150	1.955	532.4

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS) (RV7F01)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
3	112.50	.40000	847.00	.4000-01	.3300-01	.4740-01	.9130	.1478-02	.2123-02	.3160	1.931	532.3
3	112.50	.45000	848.00	.3960-01	.3260-01	.4700-01	.9130	.1460-02	.2102-02	.3100	1.963	533.3
3	112.50	.50000	849.00	.3710-01	.3060-01	.4420-01	.9130	.1367-02	.1976-02	.2880	1.863	535.2
3	112.50	.55000	850.00	.3050-01	.2510-01	.3630-01	.9130	.1125-02	.1624-02	.2380	1.597	534.7
3	112.50	.60000	851.00	.3530-01	.2900-01	.4200-01	.9130	.1297-02	.1878-02	.2720	1.835	535.9
3	112.50	.65000	852.00	.3610-01	.2970-01	.4300-01	.9130	.1329-02	.1925-02	.2790	1.906	536.2
3	112.50	.70000	853.00	.3210-01	.2640-01	.3830-01	.9130	.1183-02	.1713-02	.2480	1.750	536.1
3	112.50	.75000	854.00	.2720-01	.2240-01	.3230-01	.9130	.1004-02	.1446-02	.2130	1.392	533.5
3	112.50	.80000	855.00	.3070-01	.2530-01	.3640-01	.9130	.1131-02	.1630-02	.2400	1.569	534.0
3	112.50	.90000	856.00	.2090-01	.1720-01	.2480-01	.9130	.7697-03	.1109-02	.1630	1.065	533.9
3	125.40	.84000	857.00	.2870-01	.2360-01	.3410-01	.9130	.1056-02	.1525-02	.2230	1.385	534.9
3	125.40	.85000	858.00	.2990-01	.2460-01	.3560-01	.9130	.1102-02	.1593-02	.2320	1.450	535.4
3	125.40	.86000	859.00	.2970-01	.2440-01	.3530-01	.9130	.1093-02	.1581-02	.2300	1.448	535.6
3	125.40	.87000	860.00	.3000-01	.2470-01	.3560-01	.9130	.1105-02	.1600-02	.2320	1.466	536.0
3	125.40	.88000	861.00	.3090-01	.2540-01	.3680-01	.9130	.1137-02	.1647-02	.2380	1.504	536.4
3	125.40	.89000	862.00	.3350-01	.2760-01	.3990-01	.9130	.1233-02	.1787-02	.2580	1.638	536.6
3	125.40	.90000	863.00	.2750-01	.2260-01	.3270-01	.9130	.1012-02	.1465-02	.2130	1.359	535.8
3	125.40	.91000	864.00	.1380-01	.1140-01	.1640-01	.9130	.5102-03	.7354-03	.1080	.7910	533.9
3	125.40	.92600	865.00	.1890-01	.1550-01	.2250-01	.9130	.6925-03	.1007-02	.1440	1.048	537.9
3	129.30	.80000	866.00	.3030-01	.2490-01	.3600-01	.9130	.1116-02	.1612-02	.2350	1.487	535.0
3	129.30	.81000	867.00	.3010-01	.2480-01	.3580-01	.9130	.1110-02	.1604-02	.2340	1.470	535.2
3	129.30	.82000	868.00	.2980-01	.2460-01	.3540-01	.9130	.1099-02	.1586-02	.2320	1.460	534.5
3	129.30	.83000	869.00	.3050-01	.2510-01	.3620-01	.9130	.1122-02	.1621-02	.2370	1.492	535.0
3	135.00	.40000-01	870.00	.1715	.1397	.1672	.9556	.6249-02	.7484-02	1.254	8.068	545.2
3	135.00	.50000-01	871.00	.1715	.1399	.1699	.9521	.6260-02	.7603-02	1.266	8.107	543.6
3	135.00	.60000-01	872.00	.1355	.1101	.1363	.9487	.4926-02	.6101-02	.9790	6.503	547.0
3	135.00	.70000-01	873.00	.1871	.1511	.1913	.9454	.6763-02	.8560-02	1.313	8.913	551.7
3	135.00	.10000+00	875.00	.2528	.2029	.2711	.9363	.9078-02	.1213-01	1.714	11.19	557.0
3	135.00	.15000	876.00	.1323	.1071	.1508	.9240	.4791-02	.6748-02	.9360	6.836	550.5
3	135.00	.20000	877.00	.6230-01	.5120-01	.7320-01	.9158	.2290-02	.3275-02	.4780	3.241	537.0
3	135.00	.35000	878.00	.4130-01	.3410-01	.4900-01	.9130	.1525-02	.2191-02	.3260	2.038	532.4
3	135.00	.40000	879.00	.4530-01	.3730-01	.5370-01	.9130	.1670-02	.2403-02	.3550	2.268	533.1
3	135.00	.50000	880.00	.3290-01	.2700-01	.3920-01	.9130	.1210-02	.1752-02	.2540	1.750	536.3
3	135.00	.55000	881.00	.2720-01	.2240-01	.3240-01	.9130	.1002-02	.1448-02	.2110	1.415	535.1
3	135.00	.60000	882.00	.3470-01	.2850-01	.4130-01	.9130	.1277-02	.1850-02	.2680	1.808	536.3
3	135.00	.65000	883.00	.3150-01	.2590-01	.3750-01	.9130	.1158-02	.1680-02	.2420	1.659	537.0
3	135.00	.70000	884.00	.3250-01	.2670-01	.3880-01	.9130	.1196-02	.1735-02	.2500	1.784	537.0
3	135.00	.75000	885.00	.2860-01	.2350-01	.3400-01	.9130	.1053-02	.1522-02	.2220	1.406	535.2
3	135.00	.80000	886.00	.3270-01	.2690-01	.3880-01	.9130	.1204-02	.1737-02	.2540	1.608	534.6
3	135.00	.84000	887.00	.3120-01	.2570-01	.3710-01	.9130	.1148-02	.1660-02	.2420	1.527	535.4
1	180.00	.40000-01	600.00	.1980	.1603	.1930	.9556	.7173-02	.8632-02	1.396	8.977	546.1
1	180.00	.50000-01	601.00	.1691	.1372	.1675	.9521	.6139-02	.7492-02	1.207	7.791	544.1
1	180.00	.60000-01	602.00	.1337	.1079	.1345	.9486	.4828-02	.6018-02	.9290	6.180	548.3

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F01)

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
1	180.00	.70000-01	603.00	.1751	.1412	.1791	.9453	.6317-02	.8013-02	1.209	8.238	549.3
1	180.00	.80000-01	604.00	.3636	.2817	.3809	.9422	.1260-01	.1704-01	2.071	13.28	576.3
1	180.00	.10000+00	605.00	.2331	.1848	.2511	.9363	.8267-02	.1123-01	1.477	10.52	562.0
1	180.00	.15000	606.00	.1174	.9430-01	.1346	.9240	.4218-02	.6021-02	.7920	5.744	552.8
1	180.00	.20000	607.00	.5850-01	.4770-01	.6930-01	.9158	.2133-02	.3099-02	.4270	2.793	540.5
1	180.00	.21000	608.00	.4400-01	.3600-01	.5230-01	.9147	.1609-02	.2340-02	.3250	2.258	538.4
1	180.00	.22000	609.00	.3460-01	.2830-01	.4130-01	.9139	.1265-02	.1846-02	.2570	1.918	537.8
1	180.00	.30000	610.00	.4020-01	.3300-01	.4800-01	.9130	.1477-02	.2147-02	.3050	2.101	534.2
1	180.00	.35000	611.00	.3320-01	.2720-01	.3980-01	.9130	.1217-02	.1778-02	.2490	1.664	536.4
1	180.00	.36000	612.00	.3350-01	.2740-01	.4010-01	.9130	.1226-02	.1792-02	.2500	1.692	536.5
1	180.00	.37000	613.00	.3200-01	.2620-01	.3820-01	.9130	.1170-02	.1710-02	.2390	1.614	536.5
1	180.00	.37500	614.00	.3310-01	.2710-01	.3960-01	.9130	.1212-02	.1772-02	.2470	1.669	536.8
1	180.00	.38000	615.00	.3700-01	.3030-01	.4430-01	.9130	.1354-02	.1982-02	.2750	1.860	537.2
1	180.00	.38500	616.00	.3720-01	.3040-01	.4450-01	.9130	.1361-02	.1990-02	.2770	1.874	536.7
1	180.00	.39000	617.00	.3570-01	.2920-01	.4270-01	.9130	.1306-02	.1908-02	.2660	1.794	536.6
1	180.00	.39500	618.00	.3610-01	.2950-01	.4320-01	.9130	.1321-02	.1931-02	.2700	1.826	536.6
1	180.00	.40000	619.00	.3690-01	.3020-01	.4420-01	.9130	.1352-02	.1976-02	.2760	1.857	536.6
1	180.00	.40500	620.00	.3480-01	.2840-01	.4160-01	.9130	.1272-02	.1861-02	.2590	1.750	537.0
1	180.00	.41000	621.00	.3720-01	.3040-01	.4450-01	.9130	.1361-02	.1991-02	.2770	1.871	537.1
1	180.00	.41500	622.00	.3790-01	.3100-01	.4530-01	.9130	.1386-02	.2028-02	.2820	1.897	537.3
1	180.00	.42000	624.00	.3600-01	.2940-01	.4310-01	.9130	.1316-02	.1928-02	.2670	1.798	537.7
1	180.00	.43000	625.00	.3570-01	.2920-01	.4280-01	.9130	.1307-02	.1914-02	.2650	1.791	537.6
1	180.00	.44000	626.00	.3500-01	.2860-01	.4190-01	.9130	.1281-02	.1875-02	.2610	1.761	537.1
1	180.00	.44500	627.00	.3400-01	.2780-01	.4070-01	.9130	.1244-02	.1819 02	.2530	1.725	537.1
1	180.00	.45000	629.00	.3330-01	.2700-01	.3950-01	.9130	.1209-02	.1769-02	.2460	1.704	537.0
1	180.00	.45500	630.00	.3310-01	.2710-01	.3960-01	.9130	.1210-02	.1770-02	.2470	1.667	536.8
1	180.00	.46000	631.00	.3190-01	.2610-01	.3810-01	.9130	.1166-02	.1706-02	.2370	1.602	537.1
1	180.00	.47000	633.00	.3240-01	.2650-01	.3870-01	.9130	.1184-02	.1732-02	.2410	1.655	536.9
1	180.00	.49000	633.00	.3240-01	.2650-01	.3870-01	.9130	.1184-02	.1732-02	.2410	1.573	536.0
1	180.00	.50000	634.00	.2980-01	.2440-01	.3570-01	.9130	.1093-02	.1595-02	.2240	1.414	536.7
1	180.00	.55000	635.00	.2840-01	.2320-01	.3390-01	.9130	.1039-02	.1518-02	.2120	1.528	539.4
1	180.00	.60000	636.00	.3210-01	.2620-01	.3860-01	.9130	.1173-02	.1726-02	.2360	1.581	539.9
1	180.00	.65000	637.00	.3330-01	.2710-01	.3990-01	.9130	.1213-02	.1787-02	.2440	1.719	539.7
1	180.00	.70000	638.00	.3410-01	.2780-01	.4100-01	.9130	.1246-02	.1834-02	.2500	1.189	538.0
1	180.00	.75000	639.00	.2480-01	.2030-01	.2970-01	.9130	.9062-03	.1329-02	.1840	1.359	539.9
1	180.00	.80000	640.00	.2950-01	.2410-01	.3550-01	.9130	.1077-02	.1586-02	.2160	1.349	540.8
1	180.00	.85000	641.00	.2920-01	.2380-01	.3510-01	.9130	.1066-02	.1570-02	.2130	1.323	541.4
1	180.00	.86000	642.00	.2840-01	.2310-01	.3410-01	.9130	.1033-02	.1527-02	.2060	1.526	541.5
1	180.00	.87000	643.00	.3250-01	.2650-01	.3920-01	.9130	.1185-02	.1752-02	.2360	1.883	541.9
1	180.00	.83000	644.00	.3990-01	.3250-01	.4810-01	.9130	.1453-02	.2151-02	.2890	1.477	541.1
1	180.00	.89000	645.00	.3080-01	.2510-01	.3700-01	.9130	.1121-02	.1656-02	.2240	1.043	539.5
1	180.00	.90000	646.00	.2100-01	.1720-01	.2530-01	.9130	.7683-03	.1130-02	.1550	1.216	540.7
1	180.00	.92600	648.00	.2280-01	.1860-01	.2740-01	.9130	.8315-03	.1227-02	.1660	1.134	542.4
1	180.00	.95000	649.00	.2170-01	.1770-01	.2620-01	.9130	.7907-03	.1172-02	.1570		

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F01)

(IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
1	191.25	.35000	650.00	.3200-01	.2620-01	.3830-01	.9130	.1172-02	.1715-02	.2380	1.610	537.2
1	191.25	.36000	651.00	.3760-01	.3070-01	.4500-01	.9130	.1375-02	.2012-02	.2800	1.897	537.0
1	191.25	.37000	652.00	.3620-01	.2960-01	.4330-01	.9130	.1325-02	.1939 02	.2700	1.821	537.1
1	191.25	.37500	653.00	.3550-01	.2900-01	.4250-01	.9130	.1299-02	.1900-02	.2640	1.791	537.1
1	191.25	.38000	654.00	.3460-01	.2830-01	.4150-01	.9130	.1268-02	.1855-02	.2580	1.750	537.0
1	191.25	.38500	655.00	.3510-01	.2870-01	.4200-01	.9130	.1286-02	.1881-02	.2620	1.774	537.0
1	191.25	.39000	656.00	.3510-01	.2870-01	.4200-01	.9130	.1284-02	.1879-02	.2610	1.772	537.1
1	191.25	.39500	657.00	.3750-01	.3070-01	.4480-01	.9130	.1373-02	.2005-02	.2810	1.901	536.3
1	191.25	.40000	658.00	.4010-01	.3280-01	.4790-01	.9130	.1468-02	.2143-02	.3000	2.043	536.0
1	191.25	.40500	659.00	.3720-01	.3040-01	.4450-01	.9130	.1361-02	.1989-02	.2780	1.888	536.6
1	191.25	.41000	660.00	.3570-01	.2920-01	.4280-01	.9130	.1308-02	.1913-02	.2660	1.804	537.0
1	191.25	.41500	661.00	.3410-01	.2790-01	.4090-01	.9130	.1248-02	.1828-02	.2540	1.712	537.5
1	191.25	.42000	662.00	.3580-01	.2930-01	.4290-01	.9130	.1310-02	.1919-02	.2660	1.803	537.5
1	191.25	.42500	663.00	.3540-01	.2900-01	.4240-01	.9130	.1296-02	.1898-02	.2640	1.790	537.4
1	191.25	.43000	664.00	.3480-01	.2850-01	.4170-01	.9130	.1274-02	.1866-02	.2590	1.775	537.5
1	191.25	.44000	665.00	.3370-01	.2760-01	.4040-01	.9130	1234-02	.1808-02	.2510	1.707	537.6
1	191.25	.45000	666.00	.3180-01	.2600-01	.3820-01	.9130	.1164-02	.1707-02	.2360	1.608	538.0
1	191.25	.45500	667.00	.3330-01	.2720-01	.3990-01	.9130	.1219-02	.1785-02	.2480	1.688	537.5
1	191.25	.46000	668.00	.3340-01	.2730-01	.4000-01	.9130	.1221 02	.1790-02	.2480	1.693	537.8
1	191.25	.47000	669.00	.3410-01	.2790-01	.4080-01	.9130	.1247-02	.1826-02	.2530	1.736	537.5
1	191.25	.48000	670.00	.4070-01	.3330-01	.4870-01	.9130	.1490-02	.2178-02	.3040	2.084	536.7
1	191.25	.49000	671.00	.3580-01	.2920-01	.4290-01	.9130	.1308-02	.1919-02	.2650	1.810	538.2
1	191.25	.50000	672.00	.3240-01	.2650-01	.3880-01	.9130	.1186-02	.1736-02	.2410	1.635	537.3
1	191.25	.60000	673.00	.3640-01	.2970-01	.4380-01	.9130	.1329-02	.1958-02	.2670	1.715	540.0
1	191.25	.70000	674.00	.3320-01	.2710-01	.3990-01	.9130	.1211-02	.1786-02	.2430	1.656	540.4
1	191.25	.85000	676.00	.3030-01	.2470-01	.3640-01	.9130	.1106-02	.1629-02	.2220	1.407	540.0
1	191.25	.86000	677.00	.3060-01	.2500-01	.3680-01	.9130	.1117-02	.1647-02	.2240	1.434	540.4
1	191.25	.87000	678.00	.2960-01	.2410-01	.3560-01	.9130	.1078-02	.1590-02	.2150	1.394	540.7
1	191.25	.89000	680.00	.2870-01	.2340-01	.3450-01	.9130	.1046-02	.1543-02	.2090	1.388	540.7
1	191.25	.90000	681.00	.2290-01	.1870-01	.2750-01	.9130	.8370-03	.1232-02	.1680	1.138	539.7
1	191.25	.91000	682.00	.7600-02	.6200-02	.9000-02	.9130	.2765-03	.4048-03	.5600-01	.4120	537.3
1	191.25	.92600	683.00	.1720-01	.1400-01	.2060-01	.9130	.6263-03	.9223-03	.1260	.9230	539.9
1	191.25	.95000	684.00	.2000-01	.1630-01	.2410-01	.9130	.7282-03	.1077-02	.1450	1.048	541.8
1	197.00	.33000	685.00	.3520-01	.2880-01	.4210-01	.9130	.1289-02	.1883-02	.2630	1.779	536.4
1	197.00	.34000	686.00	.3480-01	.2850-01	.4160-01	.9130	.1273-02	.1861-02	.2600	1.755	536.6
1	197.00	.35000	687.00	.3820-01	.3120-01	.4570-01	.9130	.1396-02	.2043-02	.2840	1.921	537.0
1	197.00	.36000	688.00	.3760-01	.3070-01	.4500-01	.9130	.1375-02	.2012-02	.2800	1.890	537.2
1	197.00	.37000	689.00	.3780-01	.3100-01	.4530-01	.9130	.1385-02	.2026-02	.2820	1.903	537.1
1	197.00	.37500	690.00	.2970-01	.2430-01	.3550-01	.9130	.1085-02	.1590-02	.2200	1.492	537.6
2	197.00	.50000	631.00	.3450-01	.2820-01	.4130-01	.9130	.1263-02	.1849-02	.2570	1.735	537.3
2	197.00	.60000	692.00	.3420-01	.2790-01	.4110-01	.9130	.1249-02	.1839-02	.2510	1.624	539.7
3	197.00	.70000	693.00	.4810-01	.3920-01	.5760-01	.9130	.1755-02	.2579-02	.3540	2.413	538.8
3	197.00	.80000	694.00	.3470-01	.2830-01	.4170-01	.9130	.1268-02	.1865-02	.2550	1.609	539.5

ORIGINAL PAGE IS

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F01)

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
3	197.00	.87000	695.00	.3250-01	.2650-01	.3900-01	.9130	.1183-02	.1746-02	.2360	1.512	540.8
3	197.00	.92600	696.00	.2130-01	.1730-01	.2550-01	.9130	.7758-03	.1142-02	.1560	1.:.4	539.8
2	209.80	.50000-01	699.00	.1774	.1451	.1757	.9521	.6494-02	.7863-02	1.325	8.465	537.4
2	209.80	.70000-01	700.00	.1908	.1542	.1951	.9454	.6898-02	.8730-02	1.332	8.998	548.4
2	209.80	.10000+00	701.00	.2756	.2201	.2960	.9363	.9848-02	.1325-01	1.814	11.50	557.3
2	209.80	.15000	702.00	.1211	.9810-01	.1379	.9240	.4389-02	.6171-02	.8560	6.128	546.3
2	209.80	.20000	703.00	.5580-01	.4590-01	.6550-01	.9158	.2052-02	.2932-02	.4270	2.862	533.5
2	209.80	.30000	704.00	.2800-01	.2310-01	.3320-01	.9130	.1032-02	.1484-02	.2180	1.561	529.7
2	209.80	.35000	705.00	.3550-01	.2930-01	.4220-01	.9130	.1310-02	.1887-02	.2770	1.910	530.3
2	209.80	.37500	706.00	.3490-01	.2880-01	.4140-01	.9130	.1287-02	.1852-02	.2720	1.886	529.9
2	209.80	.50000	707.00	.3420-01	.2810-01	.4070-01	.9130	.1259-02	.1821-02	.2630	1.814	532.5
2	209.80	.60000	708.00	.3540-01	.2920-01	.4210-01	.9130	.1305-02	.1883-02	.2740	1.762	531.4
2	209.80	.70000	709.00	.3390-01	.2790-01	.4030-01	.9130	.1248-02	.1804-02	.2610	1.675	532.4
2	209.80	.80000	710.00	.3220-01	.2650-01	.3830-01	.9130	.1187-02	.1712-02	.2500	1.567	531.2
2	209.80	.87000	711.00	.3530-01	.2900-01	.4200-01	.9130	.1297-02	.1879-02	.2710	1.722	533.0
2	209.80	.92600	712.00	.2040-01	.1680-01	.2430-01	.9130	.7515-03	.1088-02	.1570	1.148	532.8
2	217.70	.50000-01	715.00	.1663	.1361	.1648	.9521	.6088-02	.7372-02	1.242	8.139	537.5
2	217.70	.70000-01	716.00	.1730	.1397	.1769	.9454	.6252-02	.7916-02	1.205	8.216	548.7
2	217.70	.10000+00	717.00	.2736	.2186	.2938	.9363	.9782-02	.1314-01	1.807	11.66	556.8
2	217.70	.15000	718.00	.1155	.9350-01	.1317	.9240	.4181-02	.5892-02	.8110	5.937	547.4
2	217.70	.20000	719.00	.5940-01	.4880-01	.6980-01	.9158	.2185-02	.3121-02	.4550	3.088	533.3
2	217.70	.30000	720.00	.2780-01	.2290-01	.3300-01	.9130	.1027-02	.1477-02	.2170	1.569	529.7
2	217.70	.35000	721.00	.3550-01	.2930-01	.4210-01	.9130	.1310-02	.1895-02	.2770	1.935	530.1
2	217.70	.37500	722.00	.3420-01	.2820-01	.4060-01	.9130	.1262-02	.1818-02	.2670	1.863	530.3
2	217.70	.50000	723.00	.3710-01	.3060-01	.4420-01	.9130	.1368-02	.1976-02	.2870	1.999	531.7
2	217.70	.60000	724.00	.3320-01	.2740-01	.3940-01	.9130	.1224-02	.1764-02	.2580	1.663	530.7
2	217.70	.70000	725.00	.3280-01	.2700-01	.3890-01	.9130	.1207-02	.1742-02	.2530	1.622	531.6
2	217.70	.80000	726.00	.3180-01	.2620-01	.3790-01	.9130	.1171-02	.1695-02	.2440	1.547	532.8
2	217.70	.87000	727.00	.3280-01	.2700-01	.3900-01	.9130	.1207-02	.1745-02	.2530	1.628	532.1
2	217.70	.92600	728.00	.1790-01	.1480-01	.2130-01	.9130	.6508-03	.9552-03	.1380	1.013	532.1

DATE 03 JUN 76 . AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F02)

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = 5.000 BETA = .0000 GRIT = 1.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
4	5.500	4.966	5.020	.0000	.0000	177.6	.1910	742.0	105.2	4.042	2765.	.1522-03
5	5.500	4.970	5.020	.0000	.0000	177.7	.1910	742.0	105.2	4.044	2764.	.1523-03
6	5.500	4.946	5.010	.0000	.0000	177.8	.1910	744.0	105.6	4.046	2769.	.1518-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
4	.8473-07	.4473-01	.1364-01
5	.8471-07	.4474-01	.1364-01
6	.8501-07	.4478-01	.1367-01

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
5	.00000	.40000-01	737.00	.2005	.1612	.1877	.9640	.7213-02	.8398-02	1.365	8.880	552.5
5	.00000	.45000-01	738.00	.1970	.1583	.1859	.9622	.7084-02	.8319-02	1.338	8.830	552.9
5	.00000	.60000-01	739.00	.1640	.1314	.1585	.9570	.5879-02	.7094-02	1.096	7.339	555.3
5	.00000	.70000-01	740.00	.2855	.2252	.2801	.9536	.1008-01	.1253-01	1.771	11.86	566.0
5	.00000	.80000-01	741.00	.3736	.2951	.3730	.9503	.1280-01	.1669-01	2.026	14.46	583.5
5	.00000	.10000+00	742.00	.2922	.2306	.3019	.9440	.1032-01	.1351-01	1.817	12.02	565.7
5	.00000	.12500	743.00	.2170	.1703	.2340	.9368	.7621-02	.1047-01	1.313	9.440	569.4
5	.00000	.15000	744.00	.1712	.1360	.1905	.9303	.6085-02	.8526-02	1.098	7.581	561.3
5	.00000	.17500	745.00	.1112	.8960-01	.1266	.9247	.4010-02	.5664-02	.7670	5.754	550.5
5	.00000	.20000	746.00	.7370-01	.5980-01	.8560-01	.9200	.2677-02	.3828-02	.5290	3.787	544.3
5	.00000	.21500	747.00	.6180-01	.5030-01	.7260-01	.9176	.2253-02	.3247-02	.4500	3.123	542.2
5	.00000	.23000	748.00	.4880-01	.3970-01	.5780-01	.9157	.1778-02	.2585-02	.3560	2.638	541.5
5	.00000	.24000	749.00	.4260-01	.3470-01	.5070-01	.9146	.1553-02	.2268-02	.3120	2.359	540.9
5	.00000	.25000	750.00	.2220-01	.1820-01	.2640-01	.9146	.8142-03	.1181-02	.1660	1.350	537.8
5	.00000	.30000	751.00	.5110-01	.4170-01	.6090-01	.9146	.1865-02	.2723-02	.3750	2.466	540.9
5	.00000	.35000	752.00	.5020-01	.4090-01	.5980-01	.9146	.1831-02	.2675-02	.3680	2.332	540.9
5	.00000	.40000	753.00	.4830-01	.3920-01	.5790-01	.9146	.1752-02	.2592-02	.3420	2.202	546.3
5	.00000	.50000	754.00	.4460-01	.3570-01	.5410-01	.9146	.1597-02	.2422-02	.2970	1.932	556.0

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F02)

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
5	.00000	.60000	755.00	.5430-01	.4350-01	.6570-01	.9146	.1948-02	.2941-02	.3650	2.334	554.2
5	.00000	.70000	756.00	.4440-01	.3550-01	.5400-01	.9146	.1587-02	.2415-02	.2930	1.927	557.0
5	.00000	.80000	757.00	.4110-01	.3300-01	.4960-01	.9146	.1478-02	.2221-02	.2800	1.750	552.3
5	.00000	.90000	758.00	.1800-01	.1450-01	.2170-01	.9146	.6501-03	.9691-03	.1250	.8080	549.4
5	55.000	.22000	759.00	.4740-01	.3880-01	.5590-01	.9154	.1734-02	.2503-02	.3540	2.649	537.4
5	55.000	.25000	760.00	.2220-01	.1830-01	.2640-01	.9136	.8181-03	.1181-02	.1710	1.345	533.3
5	55.000	.27000	761.00	.2660-01	.2180-01	.3170-01	.9136	.9768-03	.1418-02	.2010	1.506	535.7
5	55.000	.30000	762.00	.4470-01	.3660-01	.5320-01	.9136	.1639-02	.2379-02	.3370	2.039	536.0
5	55.000	.32000	763.00	.4640-01	.3800-01	.5520-01	.9136	.1701-02	.2472-02	.3500	2.079	536.3
5	55.000	.34000	764.00	.5110-01	.4190-01	.6080-01	.9136	.1873-02	.2722-02	.3850	2.294	536.4
5	55.000	.38000	766.00	.4480-01	.3670-01	.5330-01	.9136	.1642-02	.2387-02	.3370	2.060	536.4
5	55.000	.40000	767.00	.4430-01	.3630-01	.5280-01	.9136	.1623-02	.2361-02	.3330	2.092	536.6
5	55.000	.23000	768.00	.4640-01	.3800-01	.5510-01	.9140	.1699-02	.2466-02	.3490	2.608	536.5
5	67.500	.25000	769.00	.1770-01	.1460-01	.2100-01	.9133	.6518-03	.9405-03	.1370	1.070	532.3
5	67.500	.27000	770.00	.2780-01	.2280-01	.3300-01	.9133	.1020-02	.1478-02	.2110	1.551	534.6
5	67.500	.29000	771.00	.2560-01	.2100-01	.3040-01	.9133	.9412-03	.1361-02	.1960	1.223	533.5
5	67.500	.30000	772.00	.3360-01	.2750-01	.4000-01	.9133	.1232-02	.1791-02	.2540	1.561	535.6
5	67.500	.31000	773.00	.4080-01	.3340-01	.4860-01	.9133	.1496-02	.2175-02	.3080	1.877	535.9
5	67.500	.32000	774.00	.4620-01	.3800-01	.5510-01	.9133	.1698-02	.2464-02	.3510	2.125	534.9
5	67.500	.32500	775.00	.4100-01	.3350-01	.4880-01	.9133	.1504-02	.2184-02	.3110	1.884	535.2
5	67.500	.33000	776.00	.4050-01	.3320-01	.4820-01	.9133	.1486-02	.2158-02	.3070	1.867	535.2
5	67.500	.33500	777.00	.4220-01	.3460-01	.5020-01	.9133	.1548-02	.2247-02	.3200	1.946	535.1
5	67.500	.34000	778.00	.4250-01	.3480-01	.5060-01	.9133	.1558-02	.2263-02	.3220	1.957	535.2
5	67.500	.34500	779.00	.4390-01	.3600-01	.5220-01	.9133	.1611-02	.2336-02	.3330	2.034	534.8
5	67.500	.35000	780.00	.4120-01	.3380-01	.4900-01	.9133	.1512-02	.2195-02	.3120	1.910	535.1
5	67.500	.35500	781.00	.4120-01	.3380-01	.4900-01	.9133	.1510-02	.2194-02	.3120	1.911	535.4
5	67.500	.36000	782.00	.4370-01	.3590-01	.5210-01	.9133	.1606-02	.2330-02	.3320	2.037	534.9
5	67.500	.36500	783.00	.3930-01	.3230-01	.4680-01	.9133	.1443-02	.2093-02	.2990	1.827	534.8
5	67.500	.37000	784.00	.3800-01	.3120-01	.4530-01	.9133	.1397-02	.2027-02	.2890	1.776	535.0
5	67.500	.37500	785.00	.3610-01	.2960-01	.4300-01	.9133	.1326-02	.1924-02	.2740	1.700	534.9
5	67.500	.38000	786.00	.3690-01	.3020-01	.4390-01	.9133	.1353-02	.1965-02	.2790	1.735	535.5
5	67.500	.39000	787.00	.3970-01	.3250-01	.4730-01	.9133	.1455-02	.2115-02	.3000	1.868	535.8
5	67.500	.40000	788.00	.3910-01	.3210-01	.4660-01	.9133	.1436-02	.2086-02	.2960	1.862	535.5
5	67.500	.50000	789.00	.3820-01	.3120-01	.4570-01	.9133	.1394-02	.2047-02	.2810	1.809	540.1
5	67.500	.60000	790.00	.3680-01	.3000-01	.4410-01	.9133	.1341-02	.1973-02	.2690	1.771	541.1
5	67.500	.70000	791.00	.2440-01	.1980-01	.2930-01	.9133	.8874-03	.1309-02	.1770	1.254	542.2
5	67.500	.80000	792.00	.3350-01	.2730-01	.4010-01	.9133	.1223-02	.1792-02	.2470	1.561	539.4
5	67.500	.90000	793.00	.2000-01	.1630-01	.2390-01	.9133	.7312-03	.1069-02	.1490	.9640	538.2
5	78.000	.27000	794.00	.2310-01	.1890-01	.2750-01	.9131	.8475-03	.1229-02	.1760	1.264	534.0
5	78.000	.29000	795.00	.2380-01	.1960-01	.2830-01	.9131	.8774-03	.1268-02	.1840	1.140	532.5
6	78.000	.30000	796.00	.3350-01	.2750-01	.3990-01	.9131	.1232-02	.1789-02	.2560	1.559	536.7
6	78.000	.31000	797.00	.3550-01	.2910-01	.4230-01	.9131	.1305-02	.1895-02	.2710	1.652	536.7
6	78.000	.32000	798.00	.3750-01	.3080-01	.4470-01	.9131	.1378-02	.2001-02	.2870	1.737	536.5

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F02)

IH41(AEDC V41A-A4A) TI SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QD BTU. FT2S	DTWDT DEG. R /SEC	TW DEG. R
6	78.000	.32500	799.00	.3870-01	.3180-01	.4610-01	.9131	.1423-02	.2065-02	.2960	1.797	536.6
6	78.000	.33000	800.00	.3980-01	.3270-01	.4740-01	.9131	.1462-02	.2123-02	.3040	1.846	536.6
6	78.000	.33500	801.00	.4240-01	.3480-01	.5060-01	.9131	.1558-02	.2264-02	.3230	1.964	537.0
6	78.000	.34000	802.00	.3890-01	.3200-01	.4640-01	.9131	.1432-02	.2077-02	.2980	1.812	536.3
6	78.000	.34500	803.00	.4050-01	.3330-01	.4830-01	.9131	.1490-02	.2162-02	.3100	1.890	536.3
6	78.000	.35000	804.00	.3950-01	.3240-01	.4700-01	.9131	.1452-02	.2106-02	.3020	1.840	536.4
6	78.000	.35500	805.00	.4180-01	.3430-01	.4980-01	.913'	.1536-02	.2228-02	.3200	1.950	536.2
6	78.000	.36000	806.00	.3150-01	.2590-01	.3740-01	.9131	.1158-02	.1677-02	.2420	1.481	535.3
6	78.000	.36500	807.00	.3770-01	.3100-01	.4490-01	.9131	.1387-02	.2012 02	.2880	1.767	536.4
6	78.000	.37000	808.00	.3990-01	.3280-01	.4750-01	.9131	.1467-02	.2128-02	.3050	1.875	536.3
6	78.000	.37500	809.00	.3330-01	.2740-01	.3970-01	.9131	.1225-02	.1779-02	.2550	1.564	536.6
6	78.000	.38000	810.00	.3630-01	.2980-01	.4320-01	.9131	.1332-02	.1936-02	.2760	1.708	536.9
6	78.000	.39000	811.00	.5070-01	.4170-01	.6050-01	.9131	.1866-02	.2707-02	.3880	2.407	536.3
6	78.000	.40000	812.00	.4120-01	.3380-01	.4910-01	.9131	.1514-02	.2199-02	.3140	1.947	536.8
6	90.000	.23000	813.00	.3140-01	.2580-01	.3730-01	.9133	.1154-02	.1671-02	.2400	1.758	535.9
6	90.000	.24000	814.00	.2000-01	.1650-01	.2390-01	.9130	.7372-03	.1069-02	.1540	1.250	535.9
6	90.000	.27000	816.00	.1920-01	.1580-01	.2290-01	.9130	.7084 03	.1025 02	.1480	1.060	535.1
6	90.000	.29000	817.00	.1900-01	.1560-01	.2260-01	.9130	.6983-03	.1011-02	.1460	.9140	535.1
6	90.000	.30000	818.00	.2750-01	.2260-01	.3280-01	.9130	.1013-02	.1470-02	.2110	1.298	535.9
6	90.000	.31000	819.00	.2970-01	.2440-01	.3540-01	.9130	.1092-02	.1584-02	.2280	1.389	535.8
6	90.000	.32000	820.00	.3100-01	.2550-01	.3690-01	.9130	.1140-02	.1654-02	.2380	1.445	535.9
6	90.000	.32500	821.00	.3110-01	.2560-01	.3710-01	.9130	.1145-02	.1661-02	.2390	1.448	535.9
6	90.000	.33000	822.00	.3280-01	.2700-01	.3910-01	.9130	.1208-02	.1751-02	.2520	1.533	535.6
6	90.000	.33500	823.00	.3440-01	.2830-01	.4100-01	.9130	.1266-02	.1835-02	.2650	1.615	535.3
6	90.000	.34000	824.00	.4140-01	.3400-01	.4940-01	.9130	.1522-02	.2212-02	.3160	1.915	536.7
6	90.000	.34500	825.00	.3660-01	.3000-01	.4360-01	.9130	.1346-02	.1950-02	.2810	1.708	535.6
6	90.000	.35000	826.00	.3630-01	.2980-01	.4320-01	.9130	.1336-02	.1936-02	.2790	1.698	535.4
6	90.000	.36000	828.00	.4040-01	.3320-01	.4820-01	.9130	.1488-02	.2158-02	.3100	1.861	535.9
6	90.000	.37000	830.00	.3660-01	.3010-01	.4360-01	.9130	.1348-02	.1955-02	.2820	1.717	535.6
6	90.000	.37500	831.00	.3590-01	.2950-01	.4280-01	.9130	.1323-02	.1917-02	.2770	1.695	535.4
6	90.000	.38000	832.00	.3630-01	.2980-01	.4320-01	.9130	.1334-02	.1934-02	.2780	1.706	535.8
6	90.000	.39000	833.00	.4030-01	.3310-01	.4800-01	.9130	.1481-02	.2150-02	.3090	1.912	536.1
6	90.000	.40000	834.00	.3600-01	.2960-01	.4290-01	.9130	.1323-02	.1921-02	.2750	1.712	536.3
6	90.000	.50000	835.00	.3580-01	.2930-01	.4280-01	.9130	.1312-02	.1917-02	.2690	1.708	539.2
6	90.000	.60000	836.00	.3730-01	.3060-01	.4460-01	.9130	.1370-02	.1997-02	.2830	1.894	537.9
6	90.000	.70000	837.00	.2900-01	.2380-01	.3460-01	.9130	.1064-02	.1550-02	.2200	1.553	538.0
6	90.000	.80000	838.00	.3000-01	.2460-01	.3570-01	.9130	.1102-02	.1598-02	.2300	1.438	535.6
6	90.000	.90000	839.00	.2060-01	.1690-01	.2460-01	.9130	.7587-03	.1099-02	.1590	1.019	535.5
6	112.50	.23000	840.00	.2370-01	.1950-01	.2830-01	.9130	.8714-03	.1267-02	.1810	1.465	536.8
6	112.50	.25000	841.00	.1230-01	.1010-01	.1470-01	.9130	.4537-03	.6560-03	.9500-01	.7430	534.5
6	112.50	.27000	842.00	.5100-02	.4200-02	.6100-02	.9130	.1878-03	.2711-03	.4000-01	.2790	533.6
6	112.50	.30000	843.00	.1930-01	.1590-01	.2300-01	.9130	.7113-03	.1030-02	.1490	.8900	535.2
6	112.50	.33000	844.00	.3170-01	.2610-01	.3780-01	.9130	.1167-02	.1692-02	.2440	1.478	535.6

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F02)

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
6	112.50	.35000	845.00	.2960-01	.2430-01	.3530-01	.9130	.1090-02	.1579-02	.2280	1.403	535.6
6	112.50	.37000	846.00	.3570-01	.2940-01	.4260-01	.9130	.1315-02	.1907-02	.2740	1.697	536.0
6	112.50	.40000	847.00	.3030-01	.2490-01	.3600-01	.9130	.1114-02	.1614-02	.2330	1.459	535.5
6	112.50	.45000	848.00	.3190-01	.2620-01	.3800-01	.9130	.1174-02	.1703-02	.2450	1.546	536.0
6	112.50	.50000	849.00	.3010-01	.2470-01	.3590-01	.9130	.1104-02	.1607-02	.2290	1.478	537.3
6	112.50	.55000	850.00	.2540-01	.2090-01	.3030-01	.9130	.9339-03	.1357-02	.1940	1.303	536.6
6	112.50	.60000	851.00	.2770-01	.2270-01	.3310-01	.9130	.1019-02	.1480-02	.2110	1.424	536.8
6	112.50	.65000	852.00	.2840-01	.2330-01	.3390-01	.9130	.1043-02	.1517-02	.2160	1.479	537.1
6	112.50	.70000	854.00	.1550-01	.1270-01	.1850-01	.9130	.5597-03	.8262-03	.1190	.7750	535.8
6	112.50	.75000	855.00	.1870-01	.1540-01	.2230-01	.9130	.6895-03	.1000-02	.1440	.9400	536.0
6	112.50	.80000	856.00	.1200-01	.9900-02	.1430-01	.9130	.4416-03	.6413-03	.9200-01	.5990	536.4
6	112.50	.90000	857.00	.2170-01	.1780-01	.2590-01	.9130	.7985-03	.1160-02	.1660	1.031	536.6
6	125.40	.84000	858.00	.2190-01	.1800-01	.2620-01	.9130	.8061-03	.1171-02	.1670	1.046	536.7
6	125.40	.85000	859.00	.2340-01	.1920-01	.2800-01	.9130	.8610-03	.1252-02	.1790	1.125	537.0
6	125.40	.86000	860.00	.2200-01	.1810-01	.2630-01	.9130	.8090-03	.1177-02	.1680	1.058	537.3
6	125.40	.87000	861.00	.2160-01	.1770-01	.2580-01	.9130	.7937-03	.1156-02	.1640	1.035	537.9
6	125.40	.88000	862.00	.2220-01	.1820-01	.2660-01	.9130	.8163-03	.1190-02	.1680	1.069	538.1
6	125.40	.89000	863.00	.1710-01	.1410-01	.2050-01	.9130	.6295-03	.9171-03	.1300	.8300	537.9
6	125.40	.90000	864.00	.8400-02	.6900-02	.1000-01	.9130	.3100-03	.4497-03	.6500-01	.4730	535.9
6	125.40	.91000	865.00	.1200-01	.9800-02	.1440-01	.9130	.4405-03	.6437-03	.9000-01	.6580	539.2
6	125.40	.92000	866.00	.2130-01	.1750-01	.2530-01	.9130	.7828-03	.1134-02	.1640	1.034	535.5
6	129.30	.80000	867.00	.2420-01	.1990-01	.2880-01	.9130	.8899-03	.1291-02	.1850	1.163	536.0
6	129.30	.81000	868.00	.2240-01	.1840-01	.2660-01	.9130	.8223-03	.1192-02	.1720	1.078	535.8
6	129.30	.82000	869.00	.2200-01	.1810-01	.2620-01	.9130	.8083-03	.1173-02	.1680	1.061	536.0
6	129.30	.83000	870.00	.1468	.1191	.1470	.9496	.5335-02	.6584-02	1.055	6.782	546.7
6	135.00	.40000-01	871.00	.1397	.1137	.1422	.9462	.5091-02	.6368-02	1.017	6.510	544.6
6	135.00	.50000-01	872.00	.1052	.8550-01	.1088	.9429	.3827-02	.4874-02	.7580	5.034	546.4
6	135.00	.60000-01	873.00	.1366	.1105	.1436	.9397	.4947-02	.6429-02	.9630	6.544	549.7
6	135.00	.70000-01	874.00	.2179	.1747	.2404	.9312	.7821-02	.1076-01	1.466	9.575	556.9
6	135.00	.10000+00	875.00	.9830-01	.7970-01	.1143	.9202	.3569-02	.5116-02	.7010	5.128	548.0
6	135.00	.15000	876.00	.4210-01	.3460-01	.5000-01	.9138	.1551-02	.2239-02	.3230	2.192	535.9
6	135.00	.20000	877.00	.1830-01	.1500-01	.2180-01	.9130	.6738-03	.9761-03	.1410	.8810	535.3
6	135.00	.35000	878.00	.2730-01	.2240-01	.3250-01	.9130	.1005-02	.1457-02	.2100	1.335	535.8
6	135.00	.40000	879.00	.2410-01	.1970-01	.2870-01	.9130	.8834-03	.1285-02	.1830	1.260	537.6
6	135.00	.50000	880.00	.2060-01	.1690-01	.2460-01	.9130	.7590-03	.1102-02	.1580	1.057	536.4
6	135.00	.55000	881.00	.2560-01	.2100-01	.3060-01	.9130	.9426-03	.1370-02	.1960	1.322	536.8
6	135.00	.60000	882.00	.2710-01	.2230-01	.3240-01	.9130	.9969-03	.1450-02	.2070	1.417	537.2
6	135.00	.65000	883.00	.2340-01	.1920-01	.2800-01	.9130	.8599-03	.1253-02	.1780	1.268	538.0
6	135.00	.70000	884.00	.2430-01	.1990-01	.2900-01	.9130	.8922-03	.1297-02	.1850	1.173	536.8
6	135.00	.75000	885.00	.2460-01	.2020-01	.2930-01	.9130	.9024-03	.1311-02	.1870	1.184	536.7
6	135.00	.80000	887.00	.1495	.1217	.1513	.9473	.5442-02	.6771-02	1.084	6.985	542.7
4	180.00	.40000-01	600.00	.1319	.1077	.1356	.9439	.4818-02	.6068-02	.9730	6.294	540.0
4	180.00	.50000-01	601.00	.1022	.8320-01	.1057	.9407	.3722-02	.4775-02	.7430	4.961	542.3
4	180.00	.60000-01	602.00									

(RV7F02)

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
4	180.00	.70000-01	603.00	.1146	.9340-01	.1215	.9375	.4178-02	.5434-02	.8380	5.731	541.5
4	180.00	.80000-01	604.00	.2282	.1818	.2477	.9346	.8133-02	.1108-01	1.484	9.591	559.5
4	180.00	.10000+00	605.00	.1822	.1463	.2028	.9292	.6543-02	.9074-02	1.231	8.807	553.7
4	180.00	.15000	606.00	.8470-01	.6890-01	.9890-01	.9188	.3083-02	.4424-02	.6130	4.465	543.2
4	180.00	.20000	607.00	.3630-01	.2990-01	.4320-01	.9133	.1336-02	.1930-02	.2790	1.832	533.2
4	180.00	.21000	608.00	.2680-01	.2210-01	.3190-01	.9130	.9876-03	.1429-02	.2060	1.436	532.9
4	180.00	.22000	609.00	.1910-01	.1570-01	.2270-01	.9130	.7019-03	.1018-02	.1460	1.094	533.8
4	180.00	.30000	610.00	.7300-02	.6000-02	.8700-02	.9130	.2688-03	.3890-03	.5600-01	.3870	533.1
4	180.00	.35000	611.00	.7300-02	.6000-02	.8700-02	.9130	.2700-03	.3898-03	.5700-01	.3500	532.0
4	180.00	.36000	612.00	.7400-02	.6100-02	.8800-02	.9130	.2736-03	.3951-03	.5700-01	.3890	532.1
4	180.00	.37000	613.00	.7500-02	.6100-02	.8900-02	.9130	.2747-03	.3968-03	.5800-01	.7900	532.3
4	180.00	.37500	614.00	.8700-02	.7100-02	.1030-01	.9130	.3184-03	.4605 03	.6700-01	.4510	532.7
4	180.00	.38000	615.00	.7900-02	.6500-02	.9400-02	.9130	.2919-03	.4224-03	.6100-01	.4130	533.1
4	180.00	.38500	616.00	.8900-02	.7300-02	.1060-01	.9130	.3268-03	.4730-03	.6800-01	.4620	533.1
4	180.00	.39000	617.00	.1040-01	.8600-02	.1240-01	.9130	.3825-03	.5536-03	.8000-01	.5390	533.1
4	180.00	.39500	618.00	.1320-01	.1080-01	.1570-01	.9130	.4839-03	.7005-03	.1010	.6860	533.2
4	180.00	.40000	619.00	.1550-01	.1270-01	.1850-01	.9130	.5699-03	.8255-03	.1190	.8010	533.5
4	180.00	.40500	620.00	.1290-01	.1060-01	.1540-01	.9130	.4742-03	.6871-03	.9900-01	.6690	533.6
4	180.00	.41000	621.00	.1410-01	.1160-01	.1680-01	.9130	.5171-03	.7497-03	.1080	.7280	533.9
4	180.00	.41500	622.00	.1420-01	.1170-01	.1700-01	.9130	.5231-03	.7588-03	.1090	.7330	534.1
4	180.00	.42500	624.00	.1470-01	.1200-01	.1750-01	.9130	.5384-03	.7817-03	.1120	.7530	534.6
4	180.00	.43000	625.00	.1520-01	.1250-01	.1820-01	.9130	.5599-03	.8130-03	.1160	.7850	534.6
4	180.00	.44000	626.00	.1580-01	.1300-01	.1890-01	.9130	.5817-03	.8452-03	.1200	.8150	534.9
4	180.00	.44500	627.00	.1670-01	.1370-01	.1990-01	.9130	.6140-03	.8922-03	.1270	.8670	534.9
4	180.00	.45500	629.00	.1740-01	.1430-01	.2080-01	.9130	.6393-03	.9296-03	.1320	.9160	535.2
4	180.00	.46000	630.00	.1850-01	.1510-01	.2200-01	.9130	.6772-03	.9850-03	.1400	.9460	535.4
4	180.00	.47000	631.00	.2110-01	.1730-01	.2510-01	.9130	.7729-03	.1125-02	.1590	1.078	535.6
4	180.00	.49000	633.00	.2270-01	.1860-01	.2720-01	.9130	.8339-03	.1215-02	.1720	1.177	536.3
4	180.00	.50000	634.00	.2020-01	.1660-01	.2410-01	.9130	.7417-03	.1080-02	.1530	1.075	535.9
4	180.00	.55000	635.00	.1690-01	.1380-01	.2010-01	.9130	.6178-03	.9011-03	.1270	.8470	536.6
4	180.00	.60000	636.00	.2310-01	.1890-01	.2760-01	.9130	.8449-03	.1233-02	.1730	1.123	536.8
4	180.00	.65000	637.00	.2420-01	.1980-01	.2890-01	.9130	.8878-03	.1295-02	.1820	1.184	536.7
4	180.00	.70000	638.00	.1930-01	.1580-01	.2310-01	.9130	.7071-03	.1035-02	.1440	.9910	538.1
4	180.00	.80000	640.00	.1960-01	.1610-01	.2350-01	.9130	.7196-03	.1050-02	.1480	.9310	536.6
4	180.00	.85000	641.00	.3060-01	.2510-01	.3660-01	.9130	.1122-02	.1637-02	.2300	1.464	536.7
4	180.00	.86000	642.00	.1910-01	.1560-01	.2290-01	.9130	.6999-03	.1023-02	.1430	.9210	537.6
4	180.00	.87000	643.00	.1630-01	.1340-01	.1960-01	.9130	.5988-03	.8746-03	.1230	.7940	537.3
4	180.00	.88000	644.00	.1950-01	.1600-01	.2330-01	.9130	.7145-03	.1044-02	.1460	.9560	537.2
4	180.00	.89000	645.00	.2000-01	.1630-01	.2390-01	.9130	.7306-03	.1068-02	1490	.9870	537.6
4	180.00	.90000	646.00	.1130-01	.9300-02	.1350-01	.9130	.4148-03	.6042-03	.8500-01	.5770	536.0
4	180.00	.92600	648.00	.1260-01	.1040-01	.1510-01	.9130	.4635-03	.6749-03	.9600-01	.7010	535.8
4	180.00	.95000	649.00	.2170-01	.1770-01	.2600-01	.9130	.7936-03	.1162-02	.1620	1.172	538.4
4	191.25	.35000	650.00	.1090-01	.9000-02	.1290-01	.9130	.4012-03	.5791-03	.8400-01	.5710	531.8

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F02)

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
4	191.25	.36000	651.00	.1050-01	.8700-02	.1250-01	.9130	.3882-03	.5611-03	.8100-01	.5520	532.4
4	191.25	.37000	652.00	.1130-01	.9300-02	.1350-01	.9130	.4171-03	.6031-03	.8700-01	.5910	532.7
4	191.25	.37500	653.00	.1020-01	.8400-02	.1220-01	.9130	.3762-03	.5442-03	.7900-01	.5340	532.8
4	191.25	.38000	654.00	.1010-01	.8300-02	.1210-01	.9130	.3734-03	.5400-03	.7800-01	.5300	532.7
4	191.25	.38500	655.00	.1030-01	.8500-02	.1220-01	.9130	.3787-03	.5479-03	.7900-01	.5370	532.9
4	191.25	.39000	656.00	.1100-01	.9000-02	.1310-01	.9130	.4044-03	.5854-03	.8400-01	.5730	533.1
4	191.25	.39500	657.00	.1080-01	.1540-01	.2230-01	.9130	.6906-03	.9996-03	.1440	.9780	533.1
4	191.25	.40000	658.00	.1950-01	.1610-01	.2320-01	.9130	.7185-03	.1040-02	.1500	1.023	532.9
4	191.25	.40500	659.00	.2320-01	.1910-01	.2770-01	.9130	.8548-03	.1237-02	.1780	1.216	533.1
4	191.25	.41000	660.00	.1440-01	.1180-01	.1710-01	.9130	.5278-03	.7647-03	.1100	.7460	533.7
4	191.25	.41500	661.00	.1510-01	.1240-01	.1800-01	.9130	.5557-03	.8063-03	.1160	.7870	534.3
4	191.25	.42000	662.00	.1590-01	.1310-01	.1900-01	.9130	.5843-03	.8487-03	.1220	.8270	534.5
4	191.25	.42500	663.00	.1580-01	.1380-01	.2000-01	.9130	.6170-03	.8969-03	.1290	.8770	534.6
4	191.25	.43000	664.00	.1980-01	.1630-01	.2360-01	.9130	.7281-03	.1057-02	.1520	1.032	534.5
4	191.25	.44000	665.00	.2060-01	.1690-01	.2450-01	.9130	.7547-03	.1097-02	.1580	1.072	535.0
4	191.25	.45000	666.00	.2120-01	.1740-01	.2530-01	.9130	.7772-03	.1132-02	.1630	1.106	535.3
4	191.25	.45500	667.00	.2240-01	.1840-01	.2670-01	.9130	.8215-03	.1196-02	.1720	1.169	535.4
4	191.25	.46000	668.00	.2290-01	.1880-01	.2740-01	.9130	.8426-03	.1223-02	.1760	1.195	535.7
4	191.25	.47000	669.00	.2390-01	.1960-01	.2860-01	.9130	.8773-03	.1277-02	.1840	1.248	535.8
4	191.25	.48000	670.00	.2770-01	.2270-01	.3310-01	.9130	.1016-02	.1482-02	.2130	1.448	535.6
4	191.25	.49000	671.00	.2750-01	.2250-01	.3280-01	.9130	.1008-02	.1471-02	.2110	1.441	537.1
4	191.25	.50000	672.00	.2440-01	.2000-01	.2920-01	.9130	.8951-03	.1305-02	.1870	1.275	536.5
4	191.25	.60000	673.00	.2760-01	.2260-01	.3300-01	.9130	.1013-02	.1478-02	.2120	1.445	536.9
4	191.25	.70000	674.00	.2440-01	.1990-01	.2920-01	.9130	.8951-03	.1305-02	.1870	1.275	536.0
4	191.25	.85000	675.00	.2170-01	.1780-01	.2590-01	.9130	.7956-03	.1160-02	.1660	1.132	535.2
4	191.25	.85000	677.00	.2360-01	.1930-01	.2810-01	.9130	.8658-03	.1263-02	.1810	1.234	535.7
4	191.25	.87000	678.00	.2250-01	.1840-01	.2690-01	.9130	.8253-03	.1204-02	.1730	1.178	535.7
4	191.25	.88000	679.00	.2100-01	.1720-01	.2510-01	.9130	.7707-03	.1124-02	.1610	1.100	535.7
4	191.25	.89000	680.00	.2040-01	.1670-01	.2440-01	.9130	.7488-03	.1092-02	.1560	1.068	535.2
4	191.25	.90000	681.00	.1300-01	.1070-01	.1560-01	.9130	.4795-03	.6994-03	.1000	.6850	535.2
4	191.25	.91000	682.00	.1800-02	.1300-02	.2000-02	.9130	.7338-04	.1070-03	.1530-01	.1050-01	535.1
4	191.25	.92000	683.00	.1220-01	.8400-02	.1810-01	.9130	.6634-03	.9677-03	.1380	.9460	535.1
4	191.25	.93000	684.00	.1730-01	.1420-01	.2080-01	.9130	.7594-03	.1108-02	.1580	1.084	535.1
4	197.00	.93000	685.00	.1360-01	.9700-02	.1490-01	.9130	.5447-03	.7945-03	.1130	.7770	535.1
4	197.00	.93000	686.00	.9700-02	.7100-02	.1130-01	.9130	.3995-03	.5826-03	.8300-01	.5700	535.1
4	197.00	.93000	687.00	.1020-01	.8400-02	.1220-01	.9130	.3762-03	.5442-03	.7900-01	.5340	535.1
4	197.00	.93000	688.00	.1030-01	.8500-02	.1240-01	.9130	.3824-03	.5532-03	.8000-01	.5410	535.1
4	197.00	.93000	689.00	.1610-01	.1320-01	.1930-01	.9130	.5948-03	.8603-03	.1250	.8450	535.1
4	197.00	.93000	690.00	.2510-01	.2040-01	.3170-01	.9130	.9757-03	.1411-02	.2050	1.386	535.1
4	197.00	.93000	691.00	.2460-01	.2010-01	.3110-01	.9130	.9572-03	.1384-02	.2010	1.359	535.1
5	197.00	.93000	692.00	.2350-01	.2090-01	.3020-01	.9130	.9132-03	.1321-02	.1920	1.298	535.1
5	197.00	.93000	693.00	.1840-01	.1500-01	.2220-01	.9130	.6930-03	.1002-02	.1460	.9850	535.1
6	197.00	.93000	694.00	.1340-01	.1090-01	.1620-01	.9130	.5047-03	.7299-03	.1060	.7170	535.1
6	197.00	.93000	695.00	.2500-01	.2050-01	.2980-01	.9130	.9356-03	.1353-02	.1960	1.326	535.1

(IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS) (RV7F02)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
6	197.00	.92600	696.00	.2130-01	.1730-01	.2550-01	.9130	.7758-03	.1142-02	.1560	1.144	539.8
5	209.80	.50000-01	699.00	.1336	.1088	.1368	.9449	.4867-02	.6119-02	.9710	6.188	542.2
5	209.80	.70000-01	700.00	.1286	.1039	.1360	.9385	.4648-02	.6085-02	.8880	6.070	548.5
5	209.80	.10000+00	701.00	.1608	.1295	.1780	.9301	.5792-02	.7963-02	1.102	7.008	551.5
5	209.80	.15000	702.00	.8770-01	.7110-01	.1023	.9194	.3182-02	.4578-02	.6240	4.465	545.7
5	209.80	.20000	703.00	.3620-01	.2970-01	.4310-01	.9135	.1331-02	.1929-02	.2750	1.845	534.9
5	209.80	.30000	704.00	.9400-02	.7700-02	.1120-01	.9130	.3466-03	.5027-03	.7200-01	.5140	533.9
5	209.80	.35000	705.00	.1140-01	.9300-02	.1350-01	.9130	.4178-03	.6055-03	.8700-01	.6880	533.6
5	209.80	.37500	706.00	.1130-01	.9800-02	.1460-01	.9130	.4390-03	.6356-03	.9100-01	.6330	533.9
5	209.80	.40000	707.00	.2570-01	.2100-01	.3080-01	.9130	.9415-03	.1370-02	.1940	1.328	535.4
5	209.80	.60000	708.00	.1320-01	.1120-01	.1630-01	.9130	.5000-03	.7272-03	.1030	.6880	535.2
5	209.80	.70000	709.00	.2630-01	.2150-01	.3140-01	.9130	.9642-03	.1402-02	.1990	1.379	535.9
5	209.80	.80000	710.00	.2240-01	.1840-01	.2670-01	.9130	.8219-03	.1194-02	.1700	1.165	534.9
5	209.80	.87000	711.00	.2930-01	.2400-01	.3500-01	.9130	.1073-02	.1564-02	.2220	1.520	535.4
5	209.80	.92600	712.00	.1010-01	.8300-02	.1200-01	.9130	.3698-03	.5390-03	.7600-01	.5660	536.2
5	217.70	.60000-01	715.00	.1410	.1147	.1440	.9455	.5138-02	.6443-02	.9160	6.685	543.1
5	217.70	.70000-01	716.00	.1247	.1038	.1315	.9391	.4609-02	.5885-02	.8370	5.949	549.3
5	217.70	.80000+00	717.00	.1688	.1516	.2087	.9306	.6791-02	.9335-02	1.326	8.247	553.6
5	217.70	.85000	718.00	.9580-01	.7360-01	.1059	.9199	.3888-02	.4737-02	.6730	4.701	545.7
5	217.70	.20000	719.00	.3980-01	.3260-01	.4660-01	.9137	.1442-02	.2086-02	.2960	2.029	534.0
5	217.70	.30000	720.00	.1630-01	.1010-01	.1470-01	.9130	.4530-03	.6567-03	.9340-01	.6780	533.7
5	217.70	.35000	721.00	.1340-01	.1100-01	.1600-01	.9130	.4338-03	.7181-03	.1020	.7150	533.9
5	217.70	.37500	722.00	.1430-01	.1220-01	.1770-01	.9130	.5066-03	.7933-03	.1140	.7940	533.6
5	217.70	.40000	723.00	.2220-01	.1880-01	.2730-01	.9130	.8430-03	.1222-02	.1750	1.271	534.3
5	217.70	.60000	724.00	.2800-01	.2300-01	.3340-01	.9130	.1030-02	.1494-02	.2140	1.379	533.8
5	217.70	.70000	725.00	.2530-01	.2050-01	.2990-01	.9130	.9194-03	.1336-02	.1900	1.218	535.0
5	217.70	.80000	726.00	.2610-01	.2140-01	.3120-01	.9130	.9580-03	.1394-02	.1980	1.271	535.4
5	217.70	.87000	727.00	.2610-01	.2140-01	.3120-01	.9130	.9580-03	.1394-02	.1980	1.271	535.4
5	217.70	.92600	728.00	.1080-01	.8800-02	.1280-01	.9130	.3949-03	.5747-03	.8.00-01	.5950	535.6

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = 5.000 BETA = -3.000 GRIT = 1.000 K = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
7	5.500	4.953	5.030	3.000	-31.00	177.7	.1910	742.0	105.3	4.044	2766.	.1521-03
8	5.500	4.942	5.020	3.000	-31.00	177.7	.1910	745.0	105.6	4.045	2770.	.1517-03
9	5.500	4.943	5.010	3.000	-31.00	177.6	.1910	744.0	105.6	4.042	2769.	.1517-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
7	.8479-07	.4478-01	.1365-01
8	.9509-07	.4478-01	.1367-01
9	.8499-07	.4478-01	.1367-01

TEST DATA

RUN	PHI	T W	T C NO	H HREF R=0.95	H HREF R=1.0	H HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
7	.000000	.50000	754.00	.4870-01	.3870-01	.5530-01	.9146	.1644-02	.2473-02	.3120	2.033	554.5
8	.000000	.50000	754.00	.4910-01	.3910-01	.5740-01	.9146	.1748-02	.2569-02	.3480	2.237	545.3
9	.000000	.50000	754.00	.4900-01	.3900-01	.5690-01	.9146	.1834-02	.2692-02	.3650	2.311	544.9
7	.000000	.50000	754.00	.4900-01	.3900-01	.5690-01	.9146	.1833-02	.2692-02	.3650	2.398	545.0
8	.000000	.50000	754.00	.4880-01	.3880-01	.5580-01	.9146	.1719-02	.2607-02	.3630	2.249	545.6
9	.000000	.50000	754.00	.4870-01	.3870-01	.5530-01	.9146	.1638-02	.2473-02	.3480	2.085	546.8

DATE 03 JUN 76 . AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F03)

(IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
8	.00000	.60000	755.00	.6530-01	.5220-01	.7950-01	.9146	.2335-02	.3559-02	.4310	2.749	559.4
8	.00000	.70000	756.00	.6290-01	.5000-01	.7690-01	.9146	.2237-02	.3441-02	.4060	2.662	562.5
8	.00000	.80000	757.00	.5650-01	.4520-01	.6870-01	.9146	.2023-02	.3077-02	.3750	2.338	558.6
8	.00000	.90000	758.00	.1770-01	.1430-01	.2140-01	.9146	.6386-03	.9599-03	.1210	.7810	554.3
8	.00000	.92000	759.00	.5600-01	.4540-01	.6620-01	.9172	.2030-02	.2962-02	.3980	2.956	548.3
8	55.000	.22000	760.00	.2680-01	.2180-01	.3180-01	.9148	.9775-03	.1425-02	.1970	1.550	542.2
8	55.000	.25000	761.00	.3290-01	.2670-01	.3920-01	.9148	.1194-02	.1755-02	.2370	1.764	545.8
8	55.000	.27000	762.00	.3940-01	.4280-01	.6270-01	.9148	.1913-02	.2804-02	.3820	2.299	544.5
8	55.000	.30000	763.00	.5160-01	.4200-01	.6160-01	.9148	.1879-02	.2756-02	.3750	2.218	544.9
8	55.000	.32000	764.00	.5150-01	.4200-01	.6170-01	.9148	.1881-02	.2759-02	.3750	2.225	545.0
8	55.000	.34000	765.00	.4970-01	.4040-01	.5940-01	.9148	.1810-02	.2656-02	.3600	2.192	545.1
8	55.000	.38000	766.00	.4970-01	.4040-01	.5940-01	.9148	.1812-02	.2676-02	.3580	2.265	545.4
8	55.000	.40000	767.00	.5290-01	.4300-01	.6320-01	.9148	.1957-02	.2872-02	.4680	3.480	546.6
8	67.500	.23000	768.00	.5290-01	.5220-01	.7760-01	.9165	.2357-02	.3472-02	.4680	1.610	541.6
8	67.500	.25000	769.00	.3280-01	.3320-01	.4760-01	.9145	.1019-02	.1486-02	.2060	1.672	545.0
8	67.500	.27000	770.00	.3330-01	.4460-01	.6390-01	.9145	.1357-02	.1994-02	.2700	1.772	542.3
8	67.500	.29000	771.00	.3330-01	.4460-01	.6390-01	.9145	.1355-02	.1994-02	.2760	2.217	544.7
8	67.500	.30000	772.00	.4060-01	.5960-01	.8540-01	.9145	.1816-02	.2667-02	.3620	2.338	544.4
8	67.500	.31000	773.00	.4280-01	.6300-01	.9030-01	.9145	.1920-02	.2819-02	.3840	2.787	543.5
8	67.500	.32000	774.00	.5150-01	.7550-01	.1082 00	.9145	.2306-02	.3378-02	.4630	2.747	543.7
8	67.500	.33000	775.00	.5110-01	.7430-01	.1065 00	.9145	.2269-02	.3325-02	.4550	2.326	543.8
8	67.500	.34000	776.00	.4300-01	.6280-01	.9000-01	.9145	.1918-02	.2811-02	.3840	2.344	543.7
8	67.500	.35000	777.00	.4310-01	.6320-01	.9060-01	.9145	.1931-02	.2829-02	.3870	2.365	543.8
8	67.500	.36000	778.00	.4360-01	.6390-01	.9160-01	.9145	.1950-02	.2859-02	.3910	2.457	543.6
8	67.500	.34000	779.00	.4510-01	.6610-01	.9480-01	.9145	.2018-02	.2957-02	.4050	2.281	543.6
8	67.500	.34500	779.00	.4190-01	.6120-01	.8770-01	.9145	.1869-02	.2739-02	.3750	2.193	544.1
8	67.500	.35000	780.00	.4010-01	.5890-01	.8440-01	.9145	.1796-02	.2635-02	.3590	2.322	543.9
8	67.500	.36000	781.00	.4240-01	.6200-01	.8880-01	.9145	.1889-02	.2785-02	.3830	2.225	543.3
8	67.500	.36000	782.00	.4060-01	.5950-01	.8530-01	.9145	.1819-02	.2664-02	.3650	2.171	543.2
8	67.500	.38000	783.00	.3940-01	.5770-01	.8270-01	.9145	.1764-02	.2582-02	.3550	2.062	543.7
8	67.500	.37000	784.00	.3720-01	.5460-01	.7820-01	.9145	.1667-02	.2442-02	.3340	2.102	544.2
8	67.500	.37500	785.00	.3800-01	.5570-01	.7980-01	.9145	.1699-02	.2492-02	.3400	2.047	544.5
8	67.500	.38000	786.00	.3690-01	.5420-01	.7760-01	.9145	.1653-02	.2426-02	.3300	2.087	545.2
8	67.500	.39000	787.00	.3760-01	.5510-01	.7890-01	.9145	.1677-02	.2466-02	.3340	2.008	552.7
8	67.500	.40000	788.00	.3680-01	.5490-01	.7860-01	.9145	.1640-02	.2456-02	.3140	1.900	560.2
8	67.500	.50000	789.00	.3540-01	.5410-01	.7740-01	.9145	.1584-02	.2421-02	.2910	1.922	563.5
8	67.500	.60000	790.00	.3390-01	.5240-01	.7500-01	.9145	.1519-02	.2346-02	.2740	1.709	558.4
8	67.500	.70000	791.00	.3290-01	.5010-01	.7170-01	.9145	.1473-02	.2241-02	.2740	1.709	553.7
8	67.500	.80000	792.00	.1480-01	.2220-01	.4360-01	.9145	.6611-03	.9928-03	.1260	.8090	544.7
8	67.500	.90000	793.00	.2960-01	.4360-01	.6240-01	.9141	.1325-02	.1950-02	.2640	1.886	543.5
8	78.000	.27000	794.00	.3270-01	.4790-01	.6850-01	.9158	.1465-02	.2144-02	.2880	1.780	540.2
8	78.000	.29000	795.00	.1960-01	.2850-01	.4080-01	.9141	.8759-03	.1274-02	.1790	1.090	540.2
9	78.000	.30000	796.00	.2050-01	.2980-01	.4260-01	.9141	.9183-03	.1336-02	.1880	1.143	540.2
9	79.000	.31000	797.00	.2260-01	.3290-01	.4710-01	.9141	.1013-02	.1474-02	.2070	1.253	540.2
9	78.000	.32000	798.00	.2770-01								

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F03)

(IH41(AEDC V41A-A4A) TI SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
9	78.000	.32500	799.00	.3050-01	.2490-01	.3630-01	.9141	.1116-02	.1625-02	.2280	1.383	540.4
9	78.000	.33000	800.00	.3110-01	.2540-01	.3700-01	.9141	.1137-02	.1657-02	.2320	1.407	540.8
9	78.000	.33500	801.00	.3380-01	.2760-01	.4020-01	.9141	.1235-02	.1801-02	.2520	1.525	541.1
9	78.000	.34000	802.00	.3440-01	.2810-01	.4100-01	.9141	.1258-02	.1834-02	.2560	1.555	541.0
9	78.000	.34500	803.00	.3830-01	.3130-01	.4560-01	.9141	.1400-02	.2043-02	.2850	1.729	541.5
9	78.000	.35000	804.00	.3940-01	.3220-01	.4700-01	.9141	.1440-02	.2102-02	.2920	1.775	541.8
9	78.000	.35500	805.00	.4170-01	.3410-01	.4980-01	.9141	.1526-02	.2228-02	.3100	1.882	541.8
9	78.000	.36000	806.00	.3330-01	.2710-01	.3970-01	.9141	.1215-02	.1777-02	.2460	1.499	542.3
9	78.000	.36500	807.00	.4390-01	.3580-01	.5230-01	.9141	.1603-02	.2344-02	.3250	1.584	542.2
9	78.000	.37000	808.00	.4750-01	.3880-01	.5680-01	.9141	.1736-02	.2542-02	.3510	2.147	542.8
9	78.000	.37500	809.00	.5060-01	.4120-01	.6040-01	.9141	.1845-02	.2704-02	.3720	2.277	543.2
9	78.000	.38000	810.00	.5100-01	.4150-01	.6090-01	.9141	.1860-02	.2727-02	.3740	2.303	543.5
9	78.000	.38500	811.00	.5270-01	.4290-01	.6300-01	.9141	.1922-02	.2821-02	.3860	2.384	543.9
9	78.000	.39000	812.00	.5050-01	.4110-01	.6040-01	.9141	.1842-02	.2705-02	.3690	2.280	544.2
9	78.000	.40000	813.00	.4370-01	.3560-01	.5220-01	.9145	.1594-02	.2336-02	.3200	2.329	544.1
9	90.000	.23000	814.00	.3650-01	.2970-01	.4370-01	.9137	.1330-02	.1957-02	.2670	2.165	543.9
9	90.000	.24000	816.00	.3310-01	.2700-01	.3970-01	.9137	.1207-02	.1780-02	.2410	1.715	545.0
9	90.000	.27000	817.00	.3730-01	.3060-01	.4500-01	.9137	.1371-02	.2014-02	.2760	1.720	543.3
9	90.000	.29000	818.00	.4690-01	.3820-01	.5620-01	.9137	.1709-02	.2516-02	.3430	2.098	544.2
9	90.000	.30000	819.00	.4940-01	.4020-01	.5910-01	.9137	.1801-02	.2648-02	.3620	2.200	543.6
9	90.000	.31000	820.00	.5070-01	.4130-01	.6080-01	.9137	.1851-02	.2720-02	.3720	2.255	543.6
9	90.000	.32000	821.00	.4750-01	.3870-01	.5680-01	.9137	.1734-02	.2544-02	.3500	2.116	542.8
9	90.000	.32500	822.00	.4890-01	.3990-01	.5850-01	.9137	.1786-02	.2621-02	.3610	2.185	542.8
9	90.000	.33000	823.00	.4640-01	.3790-01	.5550-01	.9137	.1695-02	.2483-02	.3430	2.086	542.2
9	90.000	.33500	824.00	.4950-01	.4050-01	.5930-01	.9137	.1813-02	.2642-02	.3720	2.249	539.7
9	90.000	.34000	825.00	.4730-01	.3860-01	.5650-01	.9137	.1728-02	.2530-02	.3500	2.1??	542.1
9	90.000	.34500	826.00	.4600-01	.3750-01	.5500-01	.9137	.1681-02	.2461-02	.3410	2.066	541.9
9	90.000	.35000	828.00	.4210-01	.3440-01	.5040-01	.9137	.1539-02	.2255-02	.3120	1.882	542.3
9	90.000	.36000	830.00	.4230-01	.3450-01	.5050-01	.9137	.1545-02	.2261-02	.3130	1.905	541.8
9	90.000	.37000	831.00	.4210-01	.3440-01	.5030-01	.9137	.1541-02	.2254-02	.3130	1.913	541.6
9	90.000	.37500	832.00	.4090-01	.3340-01	.4890-01	.9137	.1494-02	.2187-02	.3030	1.851	541.9
9	90.000	.38000	833.00	.4030-01	.3290-01	.4810-01	.9137	.1473-02	.2155-02	.2990	1.848	541.7
9	90.000	.39000	834.00	.4010-01	.3270-01	.4800-01	.9137	.1466-02	.2148-02	.2970	1.840	542.2
9	90.000	.40000	835.00	.5730-01	.4650-01	.6890-01	.9137	.2081-02	.3085-02	.4110	2.600	547.1
9	90.000	.50000	836.00	.4240-01	.3440-01	.5110-01	.9137	.1540-02	.2289-02	.3030	2.014	548.2
9	90.000	.60000	837.00	.4030-01	.3240-01	.4830-01	.9137	.1451-02	.2190-02	.2770	1.941	554.1
9	90.000	.70000	838.00	.3800-01	.3080-01	.4610-01	.9137	.1382-02	.2065-02	.2690	1.668	550.3
9	90.000	.80000	839.00	.1800-01	.1460-01	.2170-01	.9137	.6530-03	.9708-03	.1280	.8190	548.3
9	90.000	.90000	840.00	.1180-01	.9700-02	.1410-01	.9135	.4342-03	.6297-03	.9000-01	.7300	537.3
9	112.50	.23000	841.00	.3200-02	.2600-02	.3800-02	.9131	.1169-03	.1695-03	.2400-01	.1900	535.9
9	112.50	.25000	842.00	.3600-02	.2900-02	.4200-02	.9131	.1290-03	.1872-03	.2700-01	.1890	536.4
9	112.50	.27000	843.00	.1180-01	.9700-02	.1410-01	.9131	.4342-03	.6321-03	.9000-01	.5370	538.0
9	112.50	.30000	844.00	.2210-01	.1810-01	.2630-01	.9131	.8103-03	.1179-02	.1680	1.016	537.7
9	112.50	.33000										

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F03)

IHM1(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
9	112.50	.35000	845.00	.2960-01	.2430-01	.3540-01	.9131	.1088-02	.1585-02	.2250	1.383	538.3
9	112.50	.37000	846.00	.5010-01	.4100-01	.5980-01	.9131	.1836-02	.2679-02	.3770	2.335	539.1
9	112.50	.40000	847.00	.4830-01	.3950-01	.5770-01	.9131	.1768-02	.2585-02	.3620	2.266	539.8
9	112.50	.45000	848.00	.3960-01	.3240-01	.4750-01	.9131	.1450-02	.2127-02	.2950	1.858	541.4
9	112.50	.50000	849.00	.3930-01	.3200-01	.4720-01	.9131	.1434-02	.2113-02	.2890	1.862	543.2
9	112.50	.55000	850.00	.3240-01	.2640-01	.3880-01	.9131	.1183-02	.1738-02	.2390	1.604	542.2
9	112.50	.60000	851.00	.3400-01	.2780-01	.4080-01	.9131	.1245-02	.1827-02	.2530	1.698	541.7
9	112.50	.65000	852.00	.3590-01	.2930-01	.4300-01	.9131	.1310-02	.1927-02	.2650	1.808	542.4
9	112.50	.70000	853.00	.3200-01	.2600-01	.3850-01	.9131	.1164-02	.1722-02	.2320	1.633	545.0
9	112.50	.75000	854.00	.2390-01	.1950-01	.2860-01	.9131	.8712-03	.1283-02	.1760	1.142	543.0
9	112.50	.80000	855.00	.2630-01	.2150-01	.3150-01	.9131	.9605-03	.1412-02	.1940	1.267	542.4
9	112.50	.90000	856.00	.1800-01	.1470-01	.2150-01	.9131	.6571-03	.9625-03	.1340	.8720	540.7
9	125.40	.84000	857.00	.2470-01	.2020-01	.2950-01	.9130	.9064-03	.1321-02	.1870	1.160	538.4
9	125.40	.85000	858.00	.2540-01	.2080-01	.3040-01	.9130	.9320-03	.1360-02	.1920	1.198	538.8
9	125.40	.86000	859.00	.2470-01	.2020-01	.2950-01	.9130	.9060-03	.1322-02	.1870	1.174	538.8
9	125.40	.87000	860.00	.2440-01	.2000-01	.2920-01	.9130	.8945-03	.1306-02	.1840	1.161	539.0
9	125.40	.88000	861.00	.2520-01	.2060-01	.3010-01	.9130	.9243-03	.1350-02	.1900	1.199	539.2
9	125.40	.89000	862.00	.2850-01	.2330-01	.3400-01	.9130	.1043-02	.1524-02	.2140	1.358	539.5
9	125.40	.90000	863.00	.2180-01	.1790-01	.2610-01	.9130	.8019-03	.1169-02	.1660	1.057	538.3
9	125.40	.91000	864.00	.1380-01	.1130-01	.1640-01	.9130	.5069-03	.7361-03	.1060	.77'0	536.6
9	125.40	.92000	865.00	.1420-01	.1160-01	.1700-01	.9130	.5211-03	.7618-03	.1070	.7770	539.7
9	125.40	.80000	866.00	.1210-01	.9900-02	.1450-01	.9130	.4449-03	.6511-03	.9100-01	.5740	540.2
9	129.30	.81000	867.00	.1900-01	.1560-01	.2280-01	.9130	.6973-03	.1019-02	.1430	.8980	539.5
9	129.30	.82000	868.00	.2290-01	.1880-01	.2740-01	.9130	.8410-03	.1226-02	.1730	1.088	538.6
9	129.30	.83000	869.00	.2170-01	.1780-01	.2600-01	.9130	.7959-03	.1163-02	.1640	1.029	535.3
9	135.00	.40000-01	870.00	.1483	.1274	.1561	.9529	.5704-02	.6989-02	1.088	6.967	554.1
9	135.00	.50000-01	871.00	.1595	.1287	.1599	.9494	.5764-02	.7161-02	1.113	7.101	551.6
9	135.00	.60000-01	872.00	.1330	.1056	.1356	.9461	.4781-02	.6071-02	.9040	5.978	555.7
9	135.00	.70000-01	873.00	.1177	.9480-01	.1219	.9428	.4246-02	.5460-02	.8120	5.508	553.4
9	135.00	.10000+00	875.00	.7130-01	.5800-01	.7690-01	.9340	.2595-02	.3443-02	.5180	3.402	545.2
9	135.00	.15000	876.00	.3840-01	.3140-01	.4390-01	.9223	.1405-02	.1964-02	.2850	2.093	541.7
9	135.00	.20000	877.00	.1960-01	.1610-01	.2320-01	.9149	.7203-03	.1037-02	.1490	1.012	537.3
9	135.00	.35000	878.00	.1060-01	.8700-02	.1270-01	.9130	.3913-03	.5690-03	.8100-01	.5070	537.3
9	135.00	.40000	879.00	.9300-02	.7600-02	.1110-01	.9130	.3398-03	.4949-03	.7000-01	.4470	538.1
9	135.00	.50000	880.00	.3590-01	.2930-01	.4310-01	.9130	.1312-02	.1932-02	.2650	1.823	542.8
9	135.00	.55000	881.00	.2920-01	.2380-01	.3500-01	.9130	.1068-02	.1567-02	.2170	1.450	541.4
9	135.00	.60000	882.00	.2720-01	.2220-01	.3250-01	.9130	.9945-03	.1457-02	.2030	1.368	540.7
9	135.00	.65000	883.00	.2350-01	.1920-01	.2810-01	.9130	.8602-03	.1260-02	.1760	1.202	540.6
9	135.00	.70000	884.00	.2320-01	.1890-01	.2780-01	.9130	.8476-03	.1245-02	.1720	1.226	541.7
9	135.00	.75000	835.00	.2100-01	.1710-01	.2510-01	.9130	.7672-03	.1124-02	.1570	.9900	540.7
9	135.00	.80000	886.00	.2290-01	.1870-01	.2730-01	.9130	.8385-03	.1225-02	.1720	1.087	539.2
9	135.00	.84000	887.00	.2050-01	.1680-01	.2450-01	.9130	.7502-03	.1097-02	.1540	.9690	539.9
7	180.00	.40000-01	600.00	.1467	.1183	.1487	.9472	.5296-02	.6655-02	1.016	6.521	550.6

(RV7F03)

(IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
7	180.00	.50000-01	601.00	.1294	.1046	.1333	.9438	.4682-02	.5963-02	.9090	5.857	548.3
7	180.00	.60000-01	602.00	.1034	.8340-01	.1083	.9406	.3733-02	.4848-02	.7160	4.763	550.6
7	180.00	.70000-01	603.00	.1237	.9980-01	.1316	.9375	.4464-02	.5891-02	.8560	5.828	550.8
7	180.00	.80000-01	604.00	.2431	.1906	.2658	.9345	.8527-02	.1189-01	1.464	9.408	570.8
7	180.00	.10000+00	605.00	.1905	.1511	.2137	.9292	.6761-02	.9563-02	1.214	8.639	563.0
7	180.00	.15000	606.00	.8320-01	.6710-01	.9790-01	.9188	.3004-02	.4383-02	.5760	4.176	550.9
7	180.00	.20000	607.00	.3390-01	.2770-01	.4060-01	.9133	.1238-02	.1817-02	.2500	1.638	540.4
7	180.00	.21000	608.00	.2510-01	.2060-01	.3010-01	.9130	.9198-03	.1347-02	.1870	1.301	538.7
7	180.00	.22000	609.00	.1880-01	.1540-01	.2250-01	.9130	.6877-03	.1006-02	.1400	1.050	538.2
7	180.00	.36000	612.00	.8900-02	.7300-02	.1070-01	.9130	.3268-03	.4776-03	.6700-01	.4520	537.8
7	180.00	.37500	614.00	.8700-02	.7100-02	.1040-01	.9130	.3192-03	.4668-03	.6500-01	.4400	538.2
7	180.00	.38000	615.00	.1920-01	.1570-01	.2300-01	.9130	.7044-03	.1030-02	.1440	.9720	538.1
7	180.00	.38500	616.00	.1370-01	.1120-01	.1640-01	.9130	.5007-03	.7318-03	.1020	.6910	538.0
7	180.00	.39000	617.00	.1180-01	.9700-02	.1410-01	.9130	.4321-03	.6318-03	.8800-01	.5940	538.2
7	180.00	.39500	618.00	.8000-02	.6500-02	.9500-02	.9130	.2915-03	.4262-03	.6000-01	.4040	538.0
7	180.00	.40000	619.00	.1190-01	.9800-02	.1430-01	.9130	.4363-03	.6381-03	.8900-01	.6000	538.2
7	180.00	.40500	620.00	.1380-01	.1130-01	.1660-01	.9130	.5069-03	.7418-03	.1030	.6980	538.5
7	180.00	.41000	621.00	.1670-01	.1360-01	.1990-01	.9130	.6096-03	.8925-03	.1240	.8390	538.7
7	180.00	.41500	622.00	.1820-01	.1490-01	.2180-01	.9130	.6650-03	.9737-03	.1360	.9120	538.7
7	180.00	.42500	624.00	.1920-01	.1570-01	.2300-01	.9130	.7017-03	.1028-02	.1430	.9600	539.0
7	180.00	.43000	625.00	.1780-01	.1460-01	.2130-01	.9130	.6512-03	.9554-03	.1320	.8910	539.6
7	180.00	.44000	626.00	.2010-01	.1650-01	.2410-01	.9130	.7366-03	.1079-02	.1500	1.013	538.7
7	180.00	.44500	627.00	.2080-01	.1700-01	.2490-01	.9130	.7620-03	.1116-02	.1550	1.05?	538.7
7	180.00	.45500	629.00	.1970-01	.1610-01	.2350-01	.9130	.7197-03	.1053-02	.1470	1.015	538.5
7	180.00	.46000	630.00	.2020-01	.1650-01	.2410-01	.9130	.7382-03	.1080-02	.1510	1.018	538.2
7	180.00	.47000	631.00	.2200-01	.1800-01	.2630-01	.9130	.8043-03	.1177-02	.1640	1.108	538.4
7	180.00	.48000	633.00	.2150-01	.1760-01	.2580-01	.9130	.7890-03	.1153-02	.1610	1.106	537.9
7	180.00	.49000	634.00	.2080-01	.1700-01	.2480-01	.9130	.7620-03	.1111-02	.1570	1.102	536.8
7	180.00	.50000	634.00	.2080-01	.1700-01	.2480-01	.9130	.6608-03	.9639-03	.1360	.9060	537.1
7	180.00	.55000	635.00	.1800-01	.1480-01	.2150-01	.9130	.1030-02	.1509-02	.2100	1.357	539.0
7	180.00	.60000	636.00	.2820-01	.2300-01	.3370-01	.9130	.8753-03	.1283-02	.1780	1.154	539.3
7	180.00	.65000	637.00	.2390-01	.1960-01	.2870-01	.9130	.1066-02	.1561-02	.2170	1.492	538.8
7	180.00	.70000	638.00	.2910-01	.2380-01	.3490-01	.9130	.1046-02	.1528-02	.2140	1.388	537.7
7	180.00	.75000	639.00	.2850-01	.2340-01	.3410-01	.9130	.7978-03	.1170-02	.1620	1.020	539.3
7	180.00	.80000	640.00	.2180-01	.1780-01	.2610-01	.9130	.7478-03	.1099-02	.1510	.9590	540.3
7	180.00	.85000	641.00	.2050-01	.1670-01	.2460-01	.9130	.7203-03	.1060-02	.1450	.9340	540.8
7	180.00	.86000	642.00	.1970-01	.1610-01	.2370-01	.9130	.7096-03	.1044-02	.1430	.9250	541.0
7	180.00	.87000	643.00	.1940-01	.1590-01	.2330-01	.9130	.7935-03	.1167-02	.1600	1.045	540.7
7	180.00	.88000	644.00	.2170-01	.1770-01	.2610-01	.9130	.8081-03	.1187-02	.1640	1.081	540.0
7	180.00	.89000	645.00	.2210-01	.1810-01	.2650-01	.9130	.4717-03	.6903-03	.9600-01	.6500	538.5
7	180.00	.90000	646.00	.1290-01	.1050-01	.1540-01	.9130	.6227-03	.9134-03	.1260	.9250	539.5
7	180.00	.92600	648.00	.1700-01	.1390-01	.2040-01	.9130	.9102-03	.1340-02	.1830	1.328	541.2
7	180.00	.95000	649.00	.2490-01	.2030-01	.2990-01	.9130	.4208-03	.615 03	.8600-01	.5800	538.2
7	191.25	.35000	650.00	.1150-01	.9400-02	.1380-01	.9130					

(IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS) (RV7F03)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
7	191.25	.36000	651.00	.8000-02	.6600-02	.9600-02	.9130	.2938-03	.4296-03	.6000-01	.4060	538.2
7	191.25	.37000	652.00	.9300-02	.7600-02	.1120-01	.9130	.3423-03	.5008-03	.7000-01	.4720	538.4
7	191.25	.37500	653.00	.7900-02	.6500-02	.9500-02	.9130	.2903-03	.4247-03	.5900-01	.4010	538.4
7	191.25	.38000	654.00	.8200-02	.6700-02	.9800-02	.9130	.2996-03	.4383-03	.6100-01	.4140	538.4
7	191.25	.38500	655.00	.7700-02	.6300-02	.9200-02	.9130	.2804-03	.4103-03	.5700-01	.3880	538.4
7	191.25	.39000	656.00	.8300-02	.6800-02	.9900-02	.9130	.3040-03	.4448-03	.6200-01	.4200	538.4
7	191.25	.40500	659.00	.9000-03	.7000-03	.1000-02	.9130	.3142-04	.4592-04	.6000-02	.4400-01	537.9
7	191.25	.41000	660.00	.9900-02	.8100-02	.1180-01	.9130	.3618-03	.5296-03	.7400-01	.4990	538.7
7	191.25	.41500	661.00	.1250-01	.1020-01	.1500-01	.9130	.4578-03	.6708-03	.9300-01	.6280	539.1
7	191.25	.42000	662.00	.1220-01	.1000-01	.1460-01	.9130	.4454-03	.6531-03	.9000-01	.6120	539.3
7	191.25	.42500	663.00	.1290-01	.1050-01	.1540-01	.9130	.4707-03	.6900-03	.9600-01	.6490	539.2
7	191.25	.43000	664.00	.1330-01	.1090-01	.1600-01	.9130	.4880-03	.7157-03	.9900-01	.6790	539.4
7	191.25	.44000	665.00	.1500-01	.1220-01	.1790-01	.9130	.5465-03	.8020-03	.1110	.7540	539.7
7	191.25	.45000	666.00	.1750-01	.1430-01	.2100-01	.9130	.6408-03	.9407-03	.1300	.8840	539.8
7	191.25	.45500	667.00	.1770-01	.1450-01	.2130-01	.9130	.6485-03	.9516-03	.1320	.8950	539.7
7	191.25	.46000	668.00	.1970-01	.1610-01	.2360-01	.9130	.7203-03	.1056-02	.1460	.9990	539.4
7	191.25	.47000	669.00	.2220-01	.1810-01	.2660-01	.9130	.8116-03	.1189-02	.1650	1.131	539.0
7	191.25	.48000	670.00	.2190-01	.1790-01	.2620-01	.9130	.8000-03	.1171-02	.1630	1.117	538.7
7	191.25	.49000	671.00	.2630-01	.2150-01	.3150-01	.9130	.9620-03	.1410-02	.1960	1.336	539.1
7	191.25	.50000	672.00	.2410-01	.1970-01	.2880-01	.9130	.8822-03	.1290-02	.1800	1.259	538.2
7	191.25	.60000	673.00	.2730-01	.2230-01	.3280-01	.9130	.9985-03	.1467-02	.2020	1.299	540.3
7	191.25	.70000	674.00	.2530-01	.2070-01	.3040-01	.9130	.9245-03	.1360-02	.1870	1.274	540.6
7	191.25	.85000	676.00	.1460-01	.1190-01	.1750-01	.9130	.5331-03	.7844-03	.1070	.6810	540.9
7	191.25	.86000	677.00	.1710-01	.1390-01	.2050-01	.9130	.6231-03	.9174-03	.1250	.8040	541.1
7	191.25	.87000	678.00	.1980-01	.1620-01	.2380-01	.9130	.7234-03	.1066-02	.1450	.9400	541.4
7	191.25	.88000	679.00	.1950-01	.1590-01	.2340-01	.9130	.7115-03	.1048-02	.1430	.9360	541.4
7	191.25	.89000	680.00	.1900-01	.1550-01	.2280-01	.9130	.6931-03	.1021-02	.1390	.9260	541.3
7	191.25	.90000	681.00	.1290-01	.1050-01	.1540-01	.9130	.4696-03	.6902-03	.9500-01	.6420	540.4
7	191.25	.91000	682.00	.2700-02	.2200-02	.3200-02	.9130	.9866-04	.1441-03	.2000-01	.1480	537.6
7	191.25	.92600	683.00	.1120-01	.9100-02	.1340-01	9130	.4094-03	.6008-03	.8300-01	.6090	539.8
7	191.25	.95000	684.00	.2070-01	.1690-01	.2490-01	.9130	.7564-03	.1115-02	.1520	1.101	541.5
7	197.00	.33000	685.00	.7500-02	.6200-02	.9000-02	.9130	.2766-03	.4040-03	.5700-01	.3830	537.6
7	197.00	.34000	686.00	.7900-02	.6500-02	.9500-02	.9130	.2900-03	.4236-03	.5900-01	.4010	537.7
7	197.00	.35000	687.00	.1040-01	.8500-02	.1240-01	.9130	.3802-03	.5554-03	.7800-01	.5250	537.8
7	197.00	.36000	688.00	.7400-02	.6100-02	.8900-02	.9130	.2710-03	.3961-03	.5500-01	.3740	538.1
7	197.00	.37000	689.00	.8700-02	.7100-02	.1040-01	.9130	.3195-03	.4671-03	.6500-01	.4410	538.1
7	197.00	.50000	691.00	.2340-01	.1910-01	.2800-01	.9130	.8560-03	.1253-02	.1740	1.177	538.7
7	197.00	.60000	692.00	.2610-01	.2130-01	.3130-01	.9130	.9538-03	.1402-02	.1930	1.247	540.4
7	197.00	.70000	693.00	.2560-01	.2090-01	.3060-01	.9130	.9372-03	.1368-02	.1920	1.310	536.9
8	197.00	.80000	694.00	.1650-01	.1340-01	.1980-01	.9130	.6019-03	.8873-03	.1210	.7610	541.2
8	197.00	.87000	695.00	.3320-01	.2710-01	.3980-01	.9130	.1211-02	.1783-02	.2450	1.564	542.2
8	197.00	.92600	696.00	.2100-01	.1710-01	.2520-01	.9130	.7658-03	.1128-02	.1550	1.133	542.5
8	209.80	.50000-01	699.00	.1251	.1013	.1296	.9426	.4533-02	.5801-02	.8850	5.622	548.8

IH41(AEDC V4.A-A4A) T1 SMOOTH NOSE ET (TRIPS) (RV7F03)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
8	209.80	.70000-01	700.00	.1083	.8720-01	.1159	.9363	.3903-02	.5189-02	.7470	5.033	552.9
8	209.80	.10000+00	701.00	.1366	.1099	.1529	.9282	.4917-02	.6844-02	.9330	5.928	554.3
8	209.80	.15000	702.00	.7780-01	.6280-01	.9190-01	.9181	.2808-02	.4115-02	.5390	3.847	552.2
8	209.80	.20000	703.00	.3060-01	.2500-01	.3670-01	.9131	.1120-02	.1643-02	.2270	1.519	541.1
8	209.80	.30000	704.00	.7000-02	.5700-02	.8400-02	.9130	.2562-03	.3738-03	.5300-01	.3750	538.4
8	209.80	.35000	705.00	.7200-02	.5900-02	.8600-02	.9130	.2639-03	.3863-03	.5400-01	.3700	539.8
8	209.80	.37500	706.00	.5800-02	.4700-02	.6900-02	.9130	.2105-03	.3081-03	.4300-01	.2960	539.8
8	209.80	.50000	707.00	.1910-01	.1560-01	.2290-01	.9130	.6982-03	.1025-02	.1420	.9730	541.1
8	209.80	.60000	708.00	.2550-01	.2080-01	.3060-01	.9130	.9302-03	.1371-02	.1870	1.196	542.8
8	209.80	.70000	709.00	.2260-01	.1840-01	.2710-01	.9130	.8236-03	.1214-02	.1660	1.059	542.8
8	209.80	.80000	710.00	.2310-01	.1880-01	.2780-01	.9130	.8436-03	.1245-02	.1690	1.056	543.5
8	209.80	.87000	711.00	.2400-01	.1950-01	.2890-01	.9130	.8742-03	.1294-02	.1750	1.104	544.5
8	209.80	.92600	712.00	.7300-02	.5900-02	.8700-02	.9130	.2657-03	.3913-03	.5400-01	.3910	542.4
8	209.80	.92600	712.00	.7300-02	.5900-02	.8700-02	.9130	.2657-03	.3913-03	.5400-01	.3910	542.4
8	217.70	.50000-01	715.00	.1192	.9650-01	.1234	.9427	.4319-02	.5522-02	.8460	5.512	548.4
8	217.70	.70000-01	716.00	.9750-01	.7860-01	.1043	.9364	.3518-02	.4666-02	.6770	4.609	551.7
8	217.70	.10000+00	717.00	.1184	.9560-01	.1321	.9282	.4276-02	.5913-02	.8270	5.351	550.9
8	217.70	.15000	718.00	.8110-01	.6550-01	.9580-01	.9181	.2929-02	.4287-02	.5640	4.114	551.8
8	217.70	.20000	719.00	.3580-01	.2930-01	.4290-01	.9131	.1311-02	.1919-02	.2670	1.808	540.2
8	217.70	.30000	720.00	.8100-02	.6600-02	.9600-02	.9130	.2958-03	.4314-03	.6100-01	.4380	538.2
8	217.70	.35000	721.00	.7400-02	.6000-02	.8800-02	.9130	.2696-03	.3943-03	.5500-01	.3840	539.5
8	217.70	.37500	722.00	.6900-02	.5600-02	.8200-02	.9130	.2518-03	.3688-03	.5100-01	.3570	540.0
8	217.70	.50000	723.00	.2190-01	.1790-01	.2620-01	.9130	.7997-03	.1171-02	.1630	1.131	540.1
8	217.70	.60000	724.00	.2420-01	.1970-01	.2900-01	.9130	.8835-03	.1298-02	.1790	1.147	541.6
8	217.70	.70000	725.00	.2230-01	.1820-01	.2680-01	.9130	.8154-03	.1199-02	.1650	1.051	541.9
8	217.70	.87000	727.00	.2270-01	.1850-01	.2730-01	.9130	.8258-03	.1220-02	.1660	1.060	543.7
8	217.70	.92600	728.00	.9300-02	.7600-02	.1120-01	.9130	.3415-03	.5020-03	.6900-01	.5040	541.7

DATE 03 JUN 76 AEDC V41A-A4A (IH-41), AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F04)

'41(AEDC V41A-A4A) TI SMOOTH NOSE ET (TRIPS)

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = .0000 BETA = .0000 GRIT = 2.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT.SEC	RHO SLUGS /FT3
11	5.500	4.965	.2000-01	.0000	.0000	177.7	.1910	742.0	105.3	4.044	2765.	.1522-03
12	5.500	4.955	.0000	.0000	.0000	177.7	.1910	743.0	105.4	4.044	2767.	.1520-03
13	5.500	4.946	.0000	.0000	.0000	177.7	.1910	744.0	105.6	4.045	2769.	.1518-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
11	.8477-07	.4475-01	.1364-01
12	.8488-07	.4476-01	.1366-01
13	.8500-07	.4477-01	.1367-01

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
11	.00000	.40000-01	737.00	.1746	.1405	.1699	.9556	.6286-02	.7605-02	1.193	7.761	552.5
11	.00000	.45000-01	738.00	.1733	.1393	.1701	.9539	.6234-02	.7614-02	1.179	7.779	553.2
11	.00000	.50000-01	739.00	.1335	.1067	.1344	.9487	.4776-02	.6013-02	.8850	5.914	557.1
11	.00000	.55000-01	740.00	.1140	.9130-01	.1166	.9454	.4085-02	.5220-02	.7620	5.132	555.7
11	.00000	.60000-01	741.00	.6860-01	.5540-01	.7340-01	.9363	.2478-02	.3286-02	.4760	3.175	550.1
11	.00000	.65000-01	742.00	.4130-01	.3340-01	.4570-01	.9297	.1495-02	.2046-02	.2900	2.105	548.5
11	.00000	.70000+00	743.00	.3010-01	.4060-01	.5690-01	.9240	.1818-02	.2547-02	.3580	2.491	545.3
11	.00000	.12500	744.00	.5010-01	.8400-01	.1234	.9194	.3759-02	.5524-02	.7040	5.270	555.0
11	.00000	.15000	745.00	.1048	.5680-01	.8340-01	.9158	.2541-02	.3731-02	.4980	3.564	546.3
11	.00000	.17500	746.00	.7010-01	.4490-01	.6610-01	.9143	.2008-02	.2958-02	.3980	2.761	544.1
11	.00000	.20000	747.00	.5520-01	.3500-01	.5160-01	.9133	.1565-02	.2310-02	.3120	2.314	542.6
11	.00000	.21500	748.00	.4300-01	.2770-01	.4090-01	.9130	.1241-02	.1832-02	.2480	1.877	542.1
11	.00000	.23000	749.00	.3400-01	.1320-01	.1930-01	.9130	.5901-03	.8650-03	.1200	.9740	539.1
11	.00000	.24000	750.00	.1610-01	.2890-01	.4260-01	.9130	.1291-02	.1908-02	.2580	1.697	542.4
11	.00000	.25000	751.00	.3540-01	.3130-01	.4650-01	.9130	.1400-02	.2081-02	.2760	1.746	545.1
11	.00000	.30000	752.00	.3850-01	.3100-01	.4640-01	.9130	.1386-02	.2077-02	.2690	1.729	548.2
11	.00000	.35000	753.00	.3830-01	.3100-01	.4670-01	.9130	.1386-02	.2092-02	.2660	1.734	550.7
11	.00000	.40000	754.00	.3840-01	.3100-01	.4670-01	.9130	.1386-02	.2092-02	.2660	1.734	550.7
11	.00000	.50000	754.00	.3840-01	.3100-01	.4670-01	.9130	.1386-02	.2092-02	.2660	1.734	550.7
11	.00000	.60000	755.00	.3540-01	.2850-01	.4290-01	.9130	.1277-02	.1921-02	.2460	1.576	549.6

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F04)

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
11	.00000	.70000	756.00	.3510-01	.2830-01	.4260-01	.9130	.1266-02	.1908-02	.2430	1.603	550.2
11	.00000	.80000	757.00	.2910-01	.2350-01	.3520-01	.9130	.1053-02	.1576-02	.2050	1.284	547.7
11	.00000	.90000	758.00	.1000-01	.8100-02	.1210-01	.9130	.3631-03	.5406-03	.7100-01	.4626	545.7
11	55.000	.22000	759.00	.4220-01	.3440-01	.5040-01	.9139	.1538-02	.2256-02	.3090	2.308	541.2
11	55.000	.25000	760.00	.1890-01	.1550-01	.2250-01	.9130	.6924-03	.1009-02	.1430	1.123	536.4
11	55.000	.27000	761.00	.1990-01	.1630-01	.2380-01	.9130	.7288-03	.1064-02	.1490	1.116	537.4
11	55.000	.30000	762.00	.3600-01	.2860-01	.4190-01	.9130	.1279-02	.1873-02	.2600	1.573	539.7
11	55.000	.32000	763.00	.3850-01	.3150-01	.4620-01	.9130	.1409-02	.2067-02	.2860	1.698	539.4
11	55.000	.3[illegible]	764.00	.3950-01	.3230-01	.4740-01	.9130	.1446-02	.2123-02	.2920	1.740	540.0
11	55.000	.3[illegible]	765.00	.3890-01	.3180-01	.4670-01	.9130	.1422-02	.2090-02	.2880	1.754	540.1
11	55.000	.3[illegible]	766.00	.3780-01	.3090-01	.4530-01	.9130	.1379-02	.2027-02	.2790	1.749	540.1
11	55.000	.4[illegible]	767.00	.3660-01	.2990-01	.4370-01	.9133	.1332-02	.1956-02	.2690	2.005	540.5
11	55.000	.4[illegible]	768.00	.2610-01	.1650-01	.2400-01	.9130	.7378-03	.1075-02	.1520	1.186	535.6
11	55.000	.4[illegible]	769.00	.2160-01	.2160-01	.3160-01	.9130	.9680-03	.1414-02	.1970	1.443	538.3
11	67.500	.2[illegible]	770.00	.2340-01	.2370-01	.3400-01	.9130	.1042-02	.1522-02	.2130	1.327	537.6
11	67.500	.2[illegible]	771.00	.2880-01	.3140-01	.4610-01	.9130	.1406-02	.2064-02	.2850	1.747	539.7
11	67.500	.2[illegible]	772.00	.2980-01	.3250-01	.4780-01	.9130	.1456-02	.2138-02	.2950	1.793	539.9
11	67.500	.2[illegible]	773.00	.2960-01	.3230-01	.4740-01	.9130	.1446-02	.2119-02	.2940	1.774	539.0
11	67.500	.3[illegible]	774.00	.2900-01	.3160-01	.4640-01	.9130	.1428-02	.2090-02	.2900	1.754	539.1
11	67.500	.3[illegible]	775.00	.3010-01	.3290-01	.4830-01	.9130	.1515-02	.2223-02	.3070	1.864	539.5
11	67.500	.3[illegible]	776.00	.3080-01	.3370-01	.4950-01	.9130	.1569-02	.2287-02	.3160	1.917	539.6
11	67.500	.3[illegible]	777.00	.3140-01	.3440-01	.5110-01	.9130	.1598-02	.2337-02	.3230	1.957	539.7
11	67.500	.3[illegible]	778.00	.3160-01	.3460-01	.5220-01	.9130	.1604-02	.2338-02	.3250	1.854	539.7
11	67.500	.3[illegible]	779.00	.3090-01	.3380-01	.4940-01	.9130	.1516-02	.2224-02	.3070	1.875	539.5
11	67.500	.3[illegible]	780.00	.3190-01	.3490-01	.5090-01	.9130	.1673-02	.2455-02	.3390	2.076	539.5
11	67.500	.3[illegible]	781.00	.3090-01	.3380-01	.4930-01	.9130	.1516-02	.2226-02	.3070	1.877	539.8
11	67.500	.3[illegible]	782.00	.3150-01	.3440-01	.5020-01	.9130	.1575-02	.2312-02	.3190	1.827	539.2
11	67.500	.3[illegible]	783.00	.3090-01	.3380-01	.4930-01	.9130	.1434-02	.2103-02	.2910	1.788	539.1
11	67.500	.3[illegible]	784.00	.3010-01	.3290-01	.4800-01	.9130	.1353-02	.1985-02	.2740	1.698	539.4
11	67.500	.3[illegible]	785.00	.3080-01	.3370-01	.4910-01	.9130	.1451-02	.2131-02	.2940	1.822	539.9
11	67.500	.3[illegible]	786.00	.3090-01	.3380-01	.4930-01	.9130	.1453-02	.2131-02	.2940	1.763	540.1
11	67.500	.3[illegible]	787.00	.3140-01	.3440-01	.5010-01	.9130	.1507-02	.2212-02	.3050	1.914	539.7
11	67.500	.3[illegible]	788.00	.3190-01	.3490-01	.5080-01	.9130	.1528-02	.2244-02	.3090	1.711	541.5
11	67.500	.4[illegible]	789.00	.3010-01	.3290-01	.4800-01	.9130	.1234-02	.1831-02	.2440	1.605	544.3
11	67.500	.4[illegible]	790.00	.2900-01	.3170-01	.4630-01	.9130	.1117-02	.1653-02	.2200	1.553	545.6
11	67.500	.4[illegible]	791.00	.2830-01	.3090-01	.4510-01	.9130	.1055-02	.1563-02	.2080	1.441	544.0
11	67.500	.4[illegible]	792.00	.2610-01	.2850-01	.4160-01	.9130	.9724-03	.1001-02	.1340	.8743	542.6
11	67.500	.4[illegible]	793.00	.2740-01	.2990-01	.4370-01	.9130	.1027-02	.1503-02	.2090	1.499	539.4
11	67.500	.4[illegible]	794.00	.2760-01	.3020-01	.4410-01	.9130	.1060-02	.1551-02	.2150	1.335	539.3
11	67.500	.4[illegible]	795.00	.2870-01	.3130-01	.4580-01	.9130	.1458-02	.2138-02	.2970	1.608	539.6
11	67.500	.4[illegible]	796.00	.2880-01	.3140-01	.4590-01	.9130	.1018-02	.2223-02	.3090	1.[illegible]	539.4
11	78.000	.3[illegible]	797.00	.3010-01	.3290-01	.4800-01	.9130	.1550-02	.2270-02	.3160	1.914	539.2
12	78.000	.3[illegible]	798.00	.3010-01	.3290-01	.4800-01	.9130	.1561-02	.2285-02	.3180	1.931	539.3

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F04)

IH41(AEDC V41A-A4A) TI SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
12	78.000	.33000	800.00	.4240-01	.3470-01	.5080-01	.9130	.1553-02	.2275-02	.3170	1.922	539.3
12	78.000	.33500	801.00	.4290-01	.3510-01	.5130-01	.9130	.1569-02	.2298-02	.3200	1.940	539.4
12	78.000	.34000	802.00	.4160-01	.3410-01	.4980-01	.9130	.1524-02	.2230-02	.3110	1.890	538.9
12	78.000	.34500	803.00	.4240-01	.3470-01	.5080-01	.9130	.1554-02	.2274-02	.3170	1.931	539.0
12	78.000	.35000	804.00	.4190-01	.3420-01	.5010-01	.9130	.1533-02	.2242-02	.3130	1.906	538.9
12	78.000	.35500	805.00	.4270-01	.3500-01	.5110-01	.9130	.1565-02	.2286-02	.3200	1.951	538.4
12	78.000	.36000	806.00	.3920-01	.3210-01	.4700-01	.9130	.1436-02	.2104-02	.2930	1.786	539.4
12	78.000	.36500	807.00	.4090-01	.3350-01	.4900-01	.9130	.1498-02	.2193-02	.3060	1.873	539.0
12	78.000	.37000	808.00	.3930-01	.3220-01	.4710-01	.9130	.1440-02	.2106-02	.2940	1.806	538.9
12	78.000	.37500	809.00	.4110-01	.3360-01	.4920-01	.9130	.1506-02	.2202-02	.3060	1.869	538.8
12	78.000	.38000	810.00	.3670-01	.3010-01	.4400-01	.9130	.1346-02	.1967-02	.2750	1.698	538.7
12	78.000	.38500	811.00	.3920-01	.3200-01	.4690-01	.9130	.1433-02	.2097-02	.2920	1.809	539.1
12	78.000	.39000	812.00	.3810-01	.3120-01	.4580-01	.9130	.1395-02	.2042-02	.2850	1.762	539.0
12	90.000	.23000	813.00	.3360-01	.2750-01	.4020-01	.9133	.1231-02	.1799-02	.2510	1.636	538.9
12	90.000	.24000	814.00	.2890-01	.2360-01	.3450-01	.9130	.1057-02	.1546-02	.2160	1.755	538.8
12	90.000	.25000	815.00	.2950-01	.2410-01	.3520-01	.9130	.1079-02	.1577-02	.2210	1.578	538.4
12	90.000	.26000	816.00	.2730-01	.2680-01	.3920-01	.9130	.1199-02	.1753-02	.2450	1.528	538.9
12	90.000	.27000	817.00	.3270-01	.2680-01	.3920-01	.9130	.1199-02	.1753-02	.2450	1.661	539.9
12	90.000	.28000	818.00	.4080-01	.3330-01	.4890-01	.9130	.1492-02	.2189-02	.3060	1.947	539.6
12	90.000	.29000	819.00	.4290-01	.3510-01	.5140-01	.9130	.1571-02	.2302-02	.3200	1.936	539.8
12	90.000	.30000	820.00	.4290-01	.3500-01	.5140-01	.9130	.1569-02	.2300-02	.3190	1.987	539.2
12	90.000	.31000	821.00	.4400-01	.3600-01	.5270-01	.9130	.1610-02	.2357-02	.3280	1.978	539.2
12	90.000	.32000	822.00	.4370-01	.3570-01	.5230-01	.9130	.1598-02	.2339-02	.3260	1.961	538.8
12	90.000	.33000	823.00	.4400-01	.3600-01	.5270-01	.9130	.1612-02	.2357-02	.3290	2.005	538.8
12	90.000	.33500	824.00	.4290-01	.3500-01	.5090-01	.9130	.1562-02	.2280-02	.3210	1.944	539.8
12	90.000	.34000	825.00	.4280-01	.3490-01	.5080-01	.9130	.1559-02	.2275-02	.3200	1.935	539.0
12	90.000	.34500	826.00	.4400-01	.3600-01	.5260-01	.9130	.1609-02	.2355-02	.3290	1.987	539.7
12	90.000	.35000	827.00	.4370-01	.3580-01	.5230-01	.9130	.1601-02	.2341-02	.3270	1.919	539.1
12	90.000	.35500	828.00	.4240-01	.3470-01	.5080-01	.9130	.1553-02	.2273-02	.3170	1.916	538.7
12	90.000	.36000	829.00	.3880-01	.2910-01	.4250-01	.9130	.1301-02	.1902-02	.2660	1.616	538.4
12	90.000	.36500	830.00	.4140-01	.3310-01	.4830-01	.9130	.1480-02	.2163-02	.3030	1.845	538.2
12	90.000	.37000	831.00	.4160-01	.3390-01	.4960-01	.9130	.1519-02	.2219-02	.3120	1.907	538.7
12	90.000	.37500	832.00	.3890-01	.3190-01	.4660-01	.9130	.1426-02	.2085-02	.2920	1.786	538.8
12	90.000	.38000	833.00	.4150-01	.3400-01	.4970-01	.9130	.1520-02	.2223-02	.3110	1.923	538.8
12	90.000	.38500	834.00	.3930-01	.3210-01	.4700-01	.9130	.1438-02	.2102-02	.2940	1.827	538.5
12	90.000	.39000	835.00	.4040-01	.3290-01	.4840-01	.9130	.1474-02	.2169-02	.2980	1.889	541.1
12	90.000	.39500	836.00	.3930-01	.3210-01	.4720-01	.9130	.1437-02	.2113-02	.2900	1.940	541.1
12	90.000	.40000	837.00	.3320-01	.2710-01	.3990-01	.9130	.1211-02	.1788-02	.2430	1.714	542.6
12	90.000	.40000	838.00	.3180-01	.2600-01	.3820-01	.9130	.1163-02	.1710-02	.2350	1.464	541.2
12	90.000	.90000	839.00	.2170-01	.1770-01	.2600-01	.9130	.7929-03	.1165-02	.1600	1.029	540.9
12	112.50	.23000	840.00	.2120-01	.1740-01	.2540-01	.9133	.7776-03	.1135-02	.1590	1.288	538.5
12	112.50	.25000	841.00	.8700-02	.7100-02	.1040-01	.9130	.3182-03	.4636-03	.6600-01	.5110	537.0
12	112.50	.27000	842.00	.2130-01	.1750-01	.2550-01	.9130	.7829-03	.1142-02	.1610	1.132	537.4
12	112.50	.30000	843.00	.4380-01	.3580-01	.5250-01	.9130	.1603-02	.2350-02	.3260	1.946	539.8
12	112.50	.33000	844.00	.4130-01	.3380-01	.4950-01	.9130	.1513-02	.2214-02	.3090	1.869	539.1

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DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE PAGE 25

(IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS) (RV7F04)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) B.U/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
12	112.50	.35000	845.00	.4400-01	.3600-01	.5260-01	.9130	.1609-02	.2355-02	.3290	2.021	539.1
12	112.50	.37000	846.00	.4290-01	.3510-01	.5130-01	.9130	.1569-02	.2296-02	.3200	1.982	539.1
12	112.50	.40000	847.00	.4110-01	.3360-01	.4920-01	.9130	.1505-02	.2200-02	.3080	1.928	538.5
12	112.50	.45000	848.00	.4120-01	.3380-01	.4933-01	.9130	.1511-02	.2208-02	.3100	1.954	538.3
12	112.50	.50000	849.00	.4240-01	.3470-01	.5080-01	.9130	.1553-02	.2276-02	.3160	2.041	539.6
12	112.50	.55000	850.00	.3510-01	.2870-01	.4210-01	.9130	.1286-02	.1885-02	.2610	1.753	539.9
12	112.50	.60000	851.00	.3510-01	.2960-01	.4330-01	.9130	.1321-02	.1940-02	.2680	1.800	540.5
12	112.50	.65000	852.00	.3620-01	.2950-01	.4340-01	.9130	.1322-02	.1943-02	.2670	1.824	540.9
12	112.50	.70000	853.00	.3510-01	.2690-01	.3860-01	.9130	.1202-02	.1771-02	.2430	1.707	541.5
12	112.50	.75000	854.00	.3240-01	.2490-01	.3530-01	.9130	.1076-02	.1578-02	.2160	1.419	540.4
12	112.50	.80000	855.00	.3240-01	.2490-01	.3530-01	.9130	.1078-02	.1583-02	.2110	1.378	539.9
12	112.50	.85000	856.00	.2840-01	.2180-01	.3090-01	.9130	.9437-03	.1384-02	.1840	1.209	541.5
12	125.40	.85000	857.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	858.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	859.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	860.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	861.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	862.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	863.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	864.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	865.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	866.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	867.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	868.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	869.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	870.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	871.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	872.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	873.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	874.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	875.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	876.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	877.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	878.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	879.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	880.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	881.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	882.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	883.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	884.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	885.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	886.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	887.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	888.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	889.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	890.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	891.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	892.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	893.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	894.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	895.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	896.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	897.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	898.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	899.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	900.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	901.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	902.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	903.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	904.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	905.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	906.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	907.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	908.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	909.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	910.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	911.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	912.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	913.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	914.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	915.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	916.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	917.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	918.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	919.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	920.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	921.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	922.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	923.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	924.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	925.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	926.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	927.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	928.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	929.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	930.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	931.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	932.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	933.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	934.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	935.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	936.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	937.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	938.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	939.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	940.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	941.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	942.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	943.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	944.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	945.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	946.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	947.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	948.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	949.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	950.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	951.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	952.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	953.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	954.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	955.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	956.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	957.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	958.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	959.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	960.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	961.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	962.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	963.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	964.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	965.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	966.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	967.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	968.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	969.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	970.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	971.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	972.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	973.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	974.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	975.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	976.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	977.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	978.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	979.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	980.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	981.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	982.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	983.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	984.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	985.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	986.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	987.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	988.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	989.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	990.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	991.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	992.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	993.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	994.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	995.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	996.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	997.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	998.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	999.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	1000.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	1001.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	1002.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	1003.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	1004.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	1005.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	1006.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	1007.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	1008.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	1009.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	1010.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	1011.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	1012.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	1013.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	1014.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	1015.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	1016.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	1017.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	1018.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	1019.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	1020.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	1021.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	1022.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	1023.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	1024.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	1025.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	1026.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	1027.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	1028.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	1029.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	1030.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	1031.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	1032.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	1033.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	1034.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	1035.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	1036.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	1037.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	1038.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	1039.00	.3880-01	.2980-01	.4220-01	.9130	.1401-02	.2057-02	.2790	1.859	540.6
12	125.40	.85000	1040.00	.3880-01	.2980-01	.4220-01	.9130	.1

(RVTF04)

IH41(AEDC V41A-A4A) TI SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
13	180.00	.50000-01	601.00	.1652	.1342	.1636	.9521	.6008-02	.7326-02	[illegible]	7.683	546.0
13	180.00	.60000-01	602.00	.1395	.1126	.1404	.9485	.5043-02	.6284-02	.9750	6.484	550.8
13	180.00	.70000-01	603.00	.1164	.9420-01	.1190	.9453	.4216-02	.5328-02	.8220	5.604	549.3
13	180.00	.80000-01	604.00	.1077	.9740-01	.1118	.9422	[illegible]	.5004-02	.7730	5.331	546.7
13	180.00	.10000+00	605.00	.7460-01	.6080-01	.7950-01	.9353	.2724-02	.3551-02	[illegible]	3.351	542.6
13	180.00	[illegible]	606.00	.5750-01	.4130-01	.5710-01	.9240	[illegible]	.2657-02	[illegible]	2.767	539.5
13	180.00	.20000	607.00	.4690-01	.3830-01	.5520-01	.9158	[illegible]	.2471-02	[illegible]	2.302	539.4
13	[illegible]	[illegible]	608.00	[illegible]	[illegible]	.4590-01	.9147	[illegible]	.2055-02	[illegible]	[illegible]	538.6
13	[illegible]	[illegible]	[illegible]	[illegible]	.2660-01	.3880-01	.9139	[illegible]	[illegible]	[illegible]	[illegible]	538.2
13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.4540-01	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
13	[illegible]	[illegible]	612.00	[illegible]	.3140-01	.4590-01	.9130	[illegible]	.2053-02	[illegible]	[illegible]	539.2
13	[illegible]	[illegible]	613.00	[illegible]	[illegible]	.4640-01	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
13	[illegible]	[illegible]	614.00	[illegible]	[illegible]	.4510-01	[illegible]	.1378-02	[illegible]	[illegible]	[illegible]	[illegible]
13	[illegible]	.38000	615.00	.3750-01	.3070-01	.4480-01	.9130	.1374-02	[illegible]	[illegible]	1.887	539.7
13	[illegible]	[illegible]	616.00	[illegible]	.3170-01	.4570-01	.9130	.1417-02	[illegible]	[illegible]	1.959	539.5
13	[illegible]	[illegible]	[illegible]	[illegible]	.3210-01	[illegible]	.9130	.1439-02	[illegible]	[illegible]	1.987	[illegible]
13	[illegible]	.39500	618.00	[illegible]	.3250-01	.4750-01	.9130	.1455-02	[illegible]	[illegible]	2.025	538.7
13	[illegible]	[illegible]	619.00	[illegible]	.3370-01	.4850-01	.9130	.1488-02	[illegible]	[illegible]	2.059	538.7
13	[illegible]	[illegible]	620.00	[illegible]	.3300-01	.4770-01	.9130	.1461-02	[illegible]	[illegible]	2.025	538.9
13	[illegible]	[illegible]	621.00	[illegible]	.3380-01	.4940-01	.9130	.1515-02	[illegible]	[illegible]	2.102	[illegible]
13	[illegible]	[illegible]	622.00	[illegible]	.3430-01	.5010-01	.9130	.1535-02	.2242-02	[illegible]	2.122	538.9
13	180.00	.42000	624.00	[illegible]	.3240-01	.4740-01	.9130	.1452-02	.2123-02	.2980	2.002	539.3
13	180.00	.43000	625.00	[illegible]	.3350-01	.4890-01	.9130	.1500-02	.2131-02	.3080	2.077	539.0
13	180.00	.44000	626.00	[illegible]	.3030-01	.4530-01	.9130	.1386-02	.2035-02	.2840	1.917	539.3
13	[illegible]	.44500	627.00	.3070-01	.3010-01	.4390-01	.9130	.1347-02	.1969-02	.2760	1.882	539.1
13	180.00	.45500	629.00	.3020-01	.2880-01	.4210-01	.9130	.1291-02	.1886-02	.2650	1.834	538.9
13	180.00	.46000	630.00	.3540-01	.2900-01	.4230-01	.9130	.1293-02	.1895-02	.2670	1.802	539.7
13	180.00	.47000	631.00	[illegible]	.2970-01	.4340-01	.9130	.1330-02	.1942-02	.2730	1.942	539.0
13	180.00	.49000	633.00	.3450-01	.2830-01	.4130-01	.9130	.1266-02	.1849-02	.2600	1.781	538.9
13	180.00	.50000	634.00	.3160-01	.2610-01	.3800-01	.9130	.1168-02	.1703-02	.2400	1.688	538.4
13	180.00	.55000	635.00	.2800-01	.2360-01	.3440-01	.9130	.1055-02	.1540-02	.2170	1.449	538.4
13	180.00	.60000	636.00	.3040-01	.2650-01	.3680-01	.9130	.1188-02	.1733-02	.2430	1.569	540.1
13	180.00	.65000	637.00	.3470-01	.2640-01	.4160-01	.9130	.1271-02	.1854-02	.2590	1.590	540.6
13	180.00	.70000	638.00	.3070-01	.2500-01	.3680-01	.9130	.1122-02	.1649-02	.2270	1.558	541.9
13	180.00	.80000	640.00	.2950-01	.2410-01	.3540-01	.9130	.1079-02	.1585-02	.2190	1.376	541.4
13	180.00	.85000	641.00	.3100-01	.2530-01	.3720-01	.9130	.1134-02	.1658-02	.2290	1.454	541.9
13	180.00	.86000	642.00	.3050-01	.2490-01	.3660-01	.9130	.1114-02	.1640-02	.2250	1.447	542.2
13	180.00	.87000	643.00	.3060-01	.2500-01	.3680-01	.9130	.1120-02	.1646-02	.2270	1.465	541.9
13	180.00	.88000	644.00	.3320-01	.2710-01	.3980-01	.9130	.1213-02	.1784-02	.2450	1.600	541.9
13	180.00	.89000	645.00	.3230-01	.2630-01	.3880-01	.9130	.1178-02	.1736-02	.2370	1.564	542.9
13	180.00	.90000	646.00	.2030-01	.1660-01	.2430-01	.9130	.7414-03	.1090-02	.1530	1.011	541.8
13	180.00	.92600	648.00	.2100-01	.1710-01	.2520-01	.9130	.7677-03	.1129-02	.1550	1.135	542.1

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F04)

(IH41(AEDC V41A-A4A) TI SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
13	180.00	.95000	649.00	.2640-01	.2150-01	.3170-01	.9130	.9639-03	.1421-02	.1940	1.405	542.9
13	191.25	.35000	650.00	.4560-01	.3730-01	.5460-01	.9130	.1671-02	.2446-02	.3420	2.306	539.7
13	191.25	.36000	651.00	.4320-01	.3540-01	.5170-01	.9130	.1583-02	.2317-02	.3240	2.190	539.8
13	191.25	.37000	652.00	.4340-01	.3550-01	.5200-01	.9130	.1591-02	.2328-02	.3250	2.196	539.7
13	191.25	.37500	653.00	.4100-01	.3360-01	.4910-01	.9130	.1503-02	.2199-02	.3070	2.080	539.7
13	191.25	.38000	654.00	.3990-01	.3180-01	.4660-01	.9130	.1424-02	.2084-02	.2910	1.969	539.9
13	191.25	.38500	655.00	.4070-01	.3330-01	.4870-01	.9130	.1492-02	.2182-02	.3060	2.069	539.4
13	191.25	.39000	656.00	.3880-01	.3170-01	.4640-01	.9130	.1420-02	.2078-02	.2900	1.963	539.9
13	191.25	.39500	657.00	.4250-01	.3480-01	.5090-01	.9130	.1559-02	.2278-02	.3200	2.164	539.1
13	191.25	.39500	658.00	.4600-01	.3760-01	.5500-01	.9130	.1686-02	.2464-02	.3450	2.344	539.4
13	191.25	.40000	659.00	.4460-01	.3650-01	.5340-01	.9130	.1635-02	.2390-02	.3350	2.274	539.3
13	191.25	.40500	660.00	.3950-01	.3160-01	.4620-01	.9130	.1416-02	.2069-02	.2910	1.967	539.1
13	191.25	.41000	661.00	.4050-01	.3310-01	.4840-01	.9130	.1484-02	.2168-02	.3040	2.053	539.2
13	191.25	.41500	662.00	.4080-01	.3340-01	.4880-01	.9130	.1495-02	.2187-02	.3060	2.072	539.5
13	191.25	.42000	663.00	.4030-01	.3300-01	.4820-01	.9130	.1478-02	.2160-02	.3030	2.057	539.2
13	191.25	.42500	664.00	.4160-01	.3410-01	.4980-01	.9130	.1526-02	.2231-02	.3130	2.142	539.4
13	191.25	.43000	665.00	.3970-01	.3250-01	.4750-01	.9130	.1454-02	.2126-02	.2980	2.028	539.4
13	191.25	.44000	666.00	.3860-01	.3160-01	.4620-01	.9130	.1413-02	.2070-02	.2900	1.969	540.4
13	191.25	.45000	667.00	.3870-01	.3160-01	.4630-01	.9130	.1417-02	.2073-02	.2905	1.973	539.7
13	191.25	.45500	668.00	.3880-01	.3180-01	.4640-01	.9130	.1422-02	.2079-02	.2910	1.969	539.4
13	191.25	.46000	669.00	.3890-01	.3180-01	.4650-01	.9130	.1426-02	.2085-02	.2920	2.000	539.3
13	191.25	.47000	670.00	.4170-01	.3410-01	.4990-01	.9130	.1527-02	.2235-02	.3130	2.139	539.8
13	191.25	.48000	671.00	.4020-01	.3290-01	.4820-01	.9130	.1473-02	.2158-02	.3020	2.052	540.2
13	191.25	.49000	672.00	.3700-01	.3020-01	.4430-01	.9130	.1354-02	.1981-02	.2770	1.933	539.7
13	191.25	.50000	673.00	.3700-01	.3030-01	.4440-01	.9130	.1355-02	.1984-02	.2780	1.933	541.0
13	191.25	.60000	674.00	.3540-01	.2890-01	.4260-01	.9130	.1293-02	.1896-02	.2650	1.844	543.0
13	191.25	.70000	676.00	.2980-01	.2430-01	.3570-01	.9130	.1089-02	.1593-02	.2210	1.533	541.1
13	191.25	.65000	677.00	.3170-01	.2590-01	.3810-01	.9130	.1159-02	.1700-02	.2360	1.635	541.7
13	191.25	.66000	678.00	.3180-01	.2610-01	.3820-01	.9130	.1163-02	.1706-02	.2370	1.641	541.1
13	191.25	.67000	679.00	.3110-01	.2540-01	.3730-01	.9130	.1136-02	.1666-02	.2310	1.597	540.5
13	191.25	.68000	680.00	.3090-01	.2510-01	.3700-01	.9130	.1128-02	.1653-02	.2290	1.587	540.8
13	191.25	.69000	681.00	.3090-01	.2510-01	.3700-01	.9130	.1128-02	.1653-02	.2290	1.587	540.1
13	191.25	.90000	682.00	.2800-01	.2280-01	.3360-01	.9130	.1023-02	.1501-02	.2080	1.440	540.7
13	191.25	.91000	683.00	.2760-01	.2240-01	.3310-01	.9130	.1008-02	.1478-02	.2050	1.419	541.1
13	191.25	.92000	684.00	.2760-01	.2240-01	.3310-01	.9130	.1008-02	.1478-02	.2050	1.419	539.8
13	191.25	.93000	685.00	.2790-01	.2270-01	.3350-01	.9130	.1019-02	.1496-02	.2070	1.433	539.8
13	191.25	.33000	686.00	.2810-01	.2280-01	.3370-01	.9130	.1026-02	.1506-02	.2080	1.440	539.8
13	197.00	.34000	687.00	.2810-01	.2280-01	.3370-01	.9130	.1026-02	.1506-02	.2080	1.440	539.9
13	197.00	.35000	688.00	.2800-01	.2270-01	.3360-01	.9130	.1023-02	.1501-02	.2080	1.440	539.8
13	197.00	.36000	689.00	.2810-01	.2280-01	.3370-01	.9130	.1026-02	.1506-02	.2080	1.440	539.9
13	197.00	.37000	690.00	.2840-01	.2300-01	.3410-01	.9130	.1037-02	.1522-02	.2100	1.454	539.4
13	197.00	.37500	691.00	.2860-01	.2320-01	.3430-01	.9130	.1044-02	.1532-02	.2120	1.468	539.9
13	197.00	.50000	692.00	.3560-01	.2910-01	.4270-01	.9130	.1300-02	.1909-02	.2640	1.830	540.6
13	197.00	.60000	693.00	.3560-01	.2910-01	.4270-01	.9130	.1300-02	.1909-02	.2640	1.830	540.6

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

(RV7FD4)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
13	197.00	.70000	693.00	.3320-01	.2710-01	.3980-01	.9130	.1213-02	.1783-02	.2460	1.670	541.7
13	197.00	.80000	694.00	.3210-01	.2620-01	.3940-01	.9130	.1173-02	.1719-02	.2390	1.609	540.4
13	197.00	.87000	695.00	.3320-01	.2710-01	.3980-01	.9130	.1211-02	.1783-02	.2460	1.664	542.2
13	197.00	.92600	696.00	.2100-01	.1710-01	.2520-01	.9130	.7658-03	.1128-02	.1550	1.133	542.5
11	209.80	.50000-01	693.00	.1695	.1371	.1679	.9520	.6134-02	.7215-02	1.168	7.549	548.8
11	209.80	.70000-01	700.00	.1202	.9680-01	.1230	.9453	.4332-02	.5603-02	.8260	5.574	551.6
11	209.80	.10000+00	701.00	.7930-01	.6430-01	.8480-01	.9462	.2879-02	.3794-02	.5600	3.818	549.8
11	209.80	.15000	702.00	.5330-01	.4330-01	.6050-01	.9540	.1939-02	.2719-02	.3850	2.589	543.7
11	209.80	.20000	703.00	.4050-01	.3470-01	.5230-01	.9558	.1559-02	.2267-02	.3300	2.231	542.2
11	209.80	.30000	704.00	.3750-01	.3060-01	.4510-01	.9130	.1369-02	.2015-02	.2970	2.000	541.8
11	209.80	.35000	705.00	.4050-01	.3300-01	.4660-01	.9130	.1478-02	.2079-02	.3040	2.055	541.8
11	209.80	.37500	706.00	.3750-01	.3000-01	.4550-01	.9130	.1358-02	.1993-02	.2930	1.968	541.8
11	209.80	.40000	707.00	.3710-01	.3030-01	.4450-01	.9130	.1353-02	.1954-02	.2880	1.938	541.8
11	209.80	.45000	708.00	.3810-01	.2610-01	.3860-01	.9130	.1398-02	.1828-02	.2690	1.811	541.8
11	209.80	.50000	709.00	.3300-01	.2770-01	.4080-01	.9130	.1198-02	.1763-02	.2590	1.744	541.8
11	209.80	.80000	710.00	.182 -01	.2610-01	.3850-01	.9130	.1183-02	.1748-02	.2570	1.728	541.8
11	209.80	.87000	711.00	.3880-01	.2640-01	.3910-01	.9130	.6848-03	.8830-03	.1300	.8740	541.8
11	209.80	.92600	712.00	.1610-01	.1310-01	.1930-01	.9130	.5788-03	.7507-03	.1105	.7396	548.5
11	209.80	.50000-01	715.00	.1561	.1278	.1505	.9520	.4701-02	.5613-02	.7950	5.319	551.8
11	209.80	.70000-01	716.00	.1138	.9170-01	.1165	.9453	.3434-02	.4106-02	.6030	4.052	551.8
11	209.80	.10000+00	717.00	.7410-01	.6090-01	.7920-01	.9463	.2234-02	.2663-02	.3900	2.694	551.8
11	209.80	.15000	718.00	.5010-01	.4110-01	.5730-01	.9540	.1528-02	.1839-02	.2690	1.835	551.8
11	209.80	.20000	719.00	.4180-01	.3280-01	.5610-01	.9558	.1226-02	.2613-02	.3+01	2.038	551.8
11	209.80	.30000	720.00	.3850-01	.3150-01	.4630-01	.9130	.1409-02	.2073-02	.2941	2.082	540.8
11	209.80	.35000	721.00	.4070-01	.3320-01	.4880-01	.9130	.1487-02	.2188-02	.3110	2.182	541.2
11	209.80	.37500	722.00	.3970-01	.3230-01	.4630-01	.9130	.1377-02	.2028-02	.2880	1.813	540.1
11	209.80	.40000	723.00	.3870-01	.3090-01	.4250-01	.9130	.1294-02	.1910-02	.2650	1.701	540.6
11	209.80	.45000	724.00	.3600-01	.2940-01	.4320-01	.9130	.1316-02	.1934-02	.2650	1.688	541.0
11	209.80	.50000	725.00	.3330-01	.2720-01	.4000-01	.9130	.1216-02	.1790-02	.2460	1.563	539.8
11	209.80	.80000	726.00	.3690-01	.2820-01	.4140-01	.9130	.1261-02	.1851-02	.2550	1.607	541.5
11	209.80	.87000	727.00	.3210-01	.2620-01	.3860-01	.9130	.1171-02	.1726-02	.2370	1.504	540.3
11	209.80	.92600	728.00	.2060-01	.1680-01	.2470-01	.9130	.7514-03	.1106-02	.1519		

DATE 03 JUN 76 . AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F05)

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = 5.000 BETA = -6.000 GRIT = 2.000 RN/L = 5.000

•••TEST CONDITIONS•••

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
14	5.500	4.973	5.040	6.000	-50.00	177.8	.1910	742.0	105.6	4.048	2765.	.1524-03
15	5.500	4.992	5.050	6.000	-50.00	178.0	.1910	740.0	105.0	4.051	2762.	.1528-03
16	5.500	4.965	5.040	6.000	-50.00	177.8	.1910	743.0	105.3	4.047	2766.	.1522-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
14	.8472-07	.4476-01	.1363-01
15	.8456-07	.4477-01	.1361-01
16	.8480-07	.4477-01	.1364-01

•••TEST DATA•••

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
15	.00000	.40000-01	737.00	.1994	.1589	.1865	.9636	.7115-02	.8350-02	1.298	8.421	558.0
15	.00000	.45000-01	738.00	.1990	.1588	.1878	.9618	.7111-02	.8408-02	1.304	8.587	557.1
15	.00000	.60000-01	739.00	.1622	.1288	.1568	.9566	.5764-02	.7021-02	1.035	6.906	560.9
15	.00000	.70000-01	740.00	.1412	.1125	.1389	.9532	.5036-02	.6218-02	.9170	6 165	558.3
15	.00000	.80000-01	741.00	.1194	.9550-01	.1194	.9500	.4275-02	.5347-02	.7900	5.715	555.7
15	.00000	.10000+00	742.00	.1077	.8680-01	.1110	.9438	.3885-02	.4970-02	.7410	4.943	549.7
15	.00000	.12500	743.00	.7300-01	.5880-01	.7800-01	.9366	.2633-02	.3493-02	.5020	3.642	549.8
15	.00000	.15000	744.00	.6920-01	.5610-01	.7630-01	.9302	.2510-02	.3417-02	.4880	3.395	545.9
15	.00000	.17500	745.00	.1375	.1091	.1585	.9246	.4884-02	.7098-02	.8740	6.520	561.5
15	.00000	.20000	746.00	.9160-01	.7380-01	.1072	.9199	.3304-02	.4802-02	.6280	4.484	550.3
15	.00000	.21500	747.00	.7200-01	.5820-01	.8510-01	.9176	.2606-02	.3809-02	.5040	3.489	547.2
15	.00000	.23000	748.00	.5610-01	.4540-01	.6690-01	.9157	.2035-02	.2997-02	.3960	2.927	545.9
15	.00000	.24000	749.00	.4860-01	.3940-01	.5820-01	.9146	.1762-02	.2604-02	.3450	2.601	544.9
15	.00000	.25000	750.00	.2640-01	.2140-01	.3150-01	.9146	.9601-03	.1409-02	.1910	1.546	541.9
15	.00000	.30000	751.00	.5450-01	.4420-01	.6530-01	.9146	.1978-02	.2923-02	.3870	2.540	544.9
15	.00000	.35000	752.00	.5570-01	.4520-01	.6660-01	.9146	.2025-02	.2983-02	.3930	2.524	543.5
15	.00000	.40000	753.00	.5150-01	.4190-01	.6160-01	.9146	.1875-02	.2758-02	.3700	2.384	543.1
15	.00000	.50000	754.00	.4520-01	.3670-01	.5420-01	.9146	.1641-02	.2428-02	.3200	2.096	545.4

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
15	.00000	.60000	755.00	4680-01	.3790-01	.5610-01	.9146	.1693-02	.2509-02	.3320	2.134	544.7
15	.00000	.70000	756.00	.3760-01	.3040-01	.4530-01	.9146	.1360-02	.2029-02	.2610	1.720	548.7
15	.00000	.80000	757.00	.3480-01	.2810-01	.4180-01	.9146	.1259-02	.1872-02	.2430	1.520	547.6
15	.00000	.90000	758.00	.2120-01	.1710-01	.2550-01	.9146	.7648-03	.1143-02	.1460	.9430	549.5
15	55.000	.22000	759.00	.7700-01	.6210-01	.9030-01	.9193	.2780-02	.4042-02	.5320	3.953	549.1
15	55.000	.25000	760.00	.3930-01	.3180-01	.4650-01	.9164	.1426-02	.2083-02	.2800	2.195	544.2
15	55.000	.27000	761.00	.5010-01	.4040-01	.5980-01	.9164	.1808-02	.2678-02	.3450	2.561	549.8
15	55.000	.30000	762.00	.6960-01	.5630-01	.8280-01	.9164	.2520-02	.3706-02	.4870	2.930	547.0
15	55.000	.32000	763.00	.6920-01	5600-01	.8220-01	.9164	.2507-02	.3681-02	.4870	2.680	546.3
15	55.000	.34000	764.00	.6780-01	.5490-01	.8060-01	.9164	.2459-02	.3608-02	.4780	2.835	546.1
15	55.000	.36000	766.00	.6110-01	.4950-01	.7260-01	.9164	.2216-02	.3249-02	.4310	2.623	545.8
15	55.000	.40000	767.00	.6040-01	.4890-01	.7170-01	.9164	.2191-02	.3212-02	.4270	2.668	545.7
15	67.500	.23000	768.00	.7200-01	.5810-01	.8530-01	.9175	.2600-02	.3817-02	.4980	3.702	548.8
15	67.500	.25000	769.00	.3770-01	.3060-01	.4470-01	.9162	.1370-02	.2002-02	.2690	2.095	544.0
15	67.500	.27000	770.00	.5730-01	.4620-01	.6850-01	.9162	.2067-02	.3067-02	.3930	2.865	550.1
15	67.500	.29000	771.00	.4950-01	.4020-01	.5890-01	.9162	.1798-02	.2635-02	.3510	2.177	545.2
15	67.500	.30000	772.00	.6710-01	.5420-01	.7990-01	.9162	.2427-02	.3576-02	.4690	2.866	547.2
15	67.500	.31000	773.00	.6860-01	.5550-01	.8170-01	.9162	.2485-02	.3658-02	.4810	2.918	546.8
15	67.500	.32000	774.00	.6480-01	.5250-01	.7700-01	.9162	.2348-02	.3448-02	.4570	2.750	545.8
15	67.500	.32500	775 00	.6430-01	.5210-01	.7650-01	.9162	.2333-02	.3424-02	.4550	2.743	545.6
15	67.500	.33000	776.00	.6410-01	.5200-01	.7620-01	.9162	.2327-02	.3413-02	.4540	2.745	545.4
15	67.500	.33500	777.00	.6410-01	.5190-01	.7620-01	.9162	.2325-02	.3410-02	.4540	2.745	545.3
15	67.500	.34000	778.00	.6380-01	.5170-01	.7580-01	.9162	.2314-02	.3393-02	.4510	2.731	545.3
15	67.500	.34500	779.00	.6580-01	.5330-01	.7820-01	.9162	.2387-02	.3500-02	.4660	2.826	545.3
15	67.500	.35000	780.00	.6090-01	.4940-01	.7230-01	.9162	.2210-02	.3239-02	.4320	2.627	545.1
15	67.500	.35500	781.00	.6140-01	.4980-01	.7290-01	.9162	.2228-02	.3265-02	.4350	2.655	545.0
15	67.500	.36000	782.00	.6390-01	.5180-01	.7600-01	.9162	.2320-02	.3402-02	.4530	2.762	545.2
15	67.500	.36500	783.00	.5930-01	.4810-01	.7030-01	.9162	.2151-02	.3149-02	.4210	2 565	544.5
15	67.500	.37000	784.00	.5970-01	.4840-01	.7080-01	.9162	.2167-02	.3171-02	.4250	2.602	544.3
15	67.500	.37500	785.00	.5600-01	.4540-01	.6650-01	.9162	.2033-02	.2976-02	.3980	2.455	544.3
15	67.500	.38000	786.00	.5710-01	.4630-01	.6780-01	.9162	.2071-02	.3033-02	.4050	2.505	544.9
15	67.500	.39000	787.00	.5870-01	.4750-01	.6970-01	.9162	.2128-02	.3122-02	.4150	2.574	545.4
15	67.500	.40000	788.00	.6140-01	.4970-01	.7300-01	.9162	.2226-02	.3269-02	.4330	2.709	545.8
15	67.500	.50000	789.00	.5460-01	.4410-01	.6510-01	.9162	.1974-02	.2915-02	.3790	2.429	548.3
15	67.500	.60000	790.00	.5080-01	.4100-01	.6070-01	.9162	.1837-02	.2716-02	.3520	2.309	548.7
15	67.500	.70000	791.00	.5100-01	.4080-01	.6150-01	.9162	.1828-02	.2752-02	.3380	2.374	555.7
15	67.500	.80000	792.00	.5410-01	.4330-01	.6520-01	.9162	.1938-02	.2919-02	.3580	2.240	555.7
15	67.500	.90000	793.00	.2170-01	.1720-01	.2630-01	.9162	.7702-03	.1176-02	.1390	.8870	560.5
15	78.000	.27000	794.00	.5560-01	.4480-01	.6660-01	.9158	.2007-02	.2983-02	.3830	2.725	549.8
15	78.000	.29000	795.00	.4030-01	.3270-01	.4790-01	.9158	.1465-02	.2144-02	.2880	1.780	543.5
16	78.000	.30000	796.00	.6470-01	.5240-01	.7710-01	.9158	.2345-02	.3453-02	.4570	2.768	547.7
16	78.000	.31000	797.00	.6480-01	.5250-01	.7720-01	.9158	.2351-02	.3457-02	.4600	2.786	547.0
16	78.000	.32000	798.00	.6360-01	.5150-01	.7570-01	.9158	.2307-02	.3388-02	.4560	2.728	546.5

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F05)

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
16	78.000	.32500	799.00	.6380-01	.5170-01	.7600-01	.9158	.2316-02	.3401-02	.4540	2.747	546.4
16	78.000	.33000	800.00	.6170-01	.5010-01	.7350-01	.9158	.2241-02	.3289-02	.4400	2.660	546.2
16	78.000	.33500	801.00	.6460-01	.5230-01	.7690-01	.9158	.2343-02	.3441-02	.4590	2.777	546.5
16	78.000	.34000	802.00	.5990-01	.4860-01	.7130-01	.9158	.2177-02	.3191-02	.4290	2.594	545.6
16	78.000	.34500	803.00	.5910-01	.4790-01	.7020-01	.9158	.2145-02	.3144-02	.4220	2 562	545.7
16	78.000	.35000	804.00	.5990-01	.4860-01	.7130-01	.9158	.2177-02	.3191-02	.4280	2.598	545.8
16	78.000	.35500	805.00	.6060-01	.4920-01	.7200-01	.9158	.2202-02	.3225-02	.4340	2.633	545.4
16	78.000	.36000	806.00	.5110-01	.4150-01	.6070-01	.9158	.1858-02	.2717-02	.3680	2.237	544.7
16	78.000	.36500	807.00	.5700-01	.4630-01	.6780-01	.9158	.2071-02	.3036-02	.4080	2.487	545.7
16	78.000	.37000	808.00	.5870-01	.4770-01	.6980-01	.9158	.2133-02	.3127-02	.4200	2.569	545.7
16	78.000	.37500	809.00	.5620-01	.4560-01	.6680-01	.9158	.2039-02	.2991-02	.4010	2.453	545.9
16	78.000	.38000	810.00	.6000-01	.4870-01	.7140-01	.9158	.2180-02	.3197-02	.4280	2.634	546.0
16	78.000	.39000	811.00	.6510-01	.5280-01	.7750-01	.9158	.2366-02	.3469-02	.4650	2.870	545.8
16	78.000	.40000	812.00	.5950-01	.4830-01	.7080-01	.9158	.2162-02	.3169-02	.4260	2.624	545.7
16	90.000	.23000	813.00	.6110-01	.4940-01	.7260-01	.9163	.2213-02	.3251-02	.4300	3.128	548.0
16	90.000	.24000	814.00	.4590-01	.3710-01	.5490-01	.9152	.1662-02	.2459-02	.3230	2.614	548.1
16	90.000	.27000	816.00	.5020-01	.4060-01	.6020-01	.9152	.1815-02	.2696-02	.3500	2.484	549.8
16	90.000	.29000	817.00	.4990-01	.4050-01	.5950-01	.9152	.1812-02	.2665-02	.3570	2.217	545.8
16	90.000	.30000	818.00	.6000-01	.4860-01	.7170-01	.9152	.2177-02	.3209-02	.4260	2.606	546.7
16	90.000	.31000	819.00	.6140-01	.4980-01	.7320-01	9152	.2228-02	.3278-02	.4380	2.656	546.0
16	90.000	.32000	820.00	.6210-01	.5040-01	.7410-01	.9152	.2256-02	.3317-02	.4440	2.685	545.8
16	90.000	.32500	821.00	.5970-01	.4840-01	.7120-01	.9152	.2168-02	.3186-02	.4270	2.576	545.5
16	90.000	.33000	822.00	.5910-01	.4800-01	.7050-01	.9152	.2148-02	.3154-02	.4240	2.568	545.0
16	90.000	.33500	823.00	.5810-01	.4720-01	.6920-01	.9152	.2113-02	.3099-02	.4180	2.539	544.6
16	90.000	.34000	824.00	.6080-01	.4930-01	.7250-01	.9152	.2206-02	.3246-02	.4340	2.618	545.9
16	90.000	.34500	825.00	.5830-01	.4730-01	.6940-01	.9152	.2119-02	.3109-02	.4190	2.537	544.7
16	90.000	.35000	826.00	.5790-01	.4710-01	.6900-01	.9152	.2107-02	.3091-02	.4170	2.525	544.6
16	90.000	.36000	828.00	.5770-01	.4680-01	.6870-01	.9152	.2097-02	.3077-02	.4150	2.503	544.8
16	90.000	.36500	829.00	.4870-01	.3960-01	.5790-01	.9152	.1772-02	.2594-02	.3520	2.133	543.7
16	90.000	.37000	830.00	.5590-01	.4550-01	.6660-01	.9152	.2035-02	.2983-02	.4030	2.449	544.3
16	90.000	.37500	831.00	.5510-01	.4480-01	.6560-01	.9152	.2004-02	.2935-02	.3980	2.428	544.0
16	90.000	.38000	832.00	.5540-01	.4500-01	.6590-01	.9152	.2014-02	.2952-02	.3990	2.435	544.4
16	90.000	.39000	833.00	.5590-01	.4540-01	.6660-01	.9152	.2032-02	.2980-02	.4020	2.482	544.6
16	90.000	.40000	834.00	.5300-01	.4310-01	.6320-01	.9152	.1928-02	.2829-02	.3820	2.361	544.6
16	90.000	.50000	835.00	.5310-01	.4300-01	.6360-01	.9152	.1924-02	.2846-02	.3740	2.365	548.0
16	90.000	.60000	836.00	.5350-01	.4340-01	.6390-01	.9152	.1941-02	.2860-02	.3810	2.536	546.5
16	90.000	.70000	837.00	.5040-01	.4070-01	.6050-01	.9152	.1820-02	.2707-02	.3500	2.459	550.3
16	90.000	.80000	838.00	.4890-01	.3950-01	.5870-01	.9152	.1768-02	.2626-02	.3410	2.116	549.7
16	90.000	.90000	839.00	.2470-01	.1980-01	.2980-01	.9152	.8869-03	.1336-02	.1660	1.059	555.1
16	112.50	.23000	840.00	.4600-01	.3730-01	.5490-01	.9148	.1670-02	.2459-02	.3290	2.658	545.3
16	112.50	.25000	841.00	.2430-01	.1380-01	.2910-01	.9139	.8858-03	.1302-02	.1770	1.376	542.6
16	112.50	.27000	842.00	.2390-01	.1940-01	.2860-01	.9139	.8706-03	.1280-02	.1740	1.219	542.9
16	112.50	.30000	843.00	.5290-01	.4300-01	.6350-01	.9139	.1926-02	.2841-02	.3820	2.275	544.2

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
16	112.50	.33000	844.00	.5500-01	.4480-01	.6600-01	.9139	.2003-02	.2953-02	.3980	2.404	543.8
16	112.50	.35000	845.00	.5290-01	.4310-01	.6340-01	.9139	.1930-02	.2838-02	.3850	2.367	542.8
16	112.50	.37000	846.00	.5290-01	.4300-01	.6330-01	.9139	.1927-02	.2833-02	.3850	2.379	542.7
16	112.50	.40000	847.00	.4240-01	.3450-01	.5070-01	.9139	.1547-02	.2269-02	.3110	1.940	541.8
16	112.50	.45000	848.00	.4450-01	.3620-01	.5320-01	.9139	.1623-02	.2383-02	.3250	2.048	542.2
16	112.50	.50000	849.00	.4500-01	.3660-01	.5390-01	.9139	.1638-02	.2415-02	.3250	2.093	544.0
16	112.50	.55000	850.00	.3560-01	.2890-01	.4270-01	.9139	.1295-02	.1910-02	.2570	1.721	543.9
16	112.50	.60000	851.00	.4050-01	.3300-01	.4850-01	.9139	.1477-02	.2172-02	.2930	1.980	542.9
16	112.50	.65000	852.00	.4090-01	.3330-01	.4900-01	.9139	.1491-02	.2195-02	.2970	2.024	543.3
16	112.50	.70000	853.00	.2270-01	.1840-01	.2730-01	.9139	.8223-03	.1220-02	.1610	1.131	546.6
16	112.50	.75000	854.00	.2370-01	.1930-01	.2850-01	.9139	.8628-03	.1277-02	.1700	1.103	545.6
16	112.50	.80000	855.00	.2870-01	.2330-01	.3440-01	.9139	.1045-02	.1539-02	.2080	1.353	543.7
16	112.50	.90000	856.00	.2040-01	.1650 01	.2460-01	.9139	.7389-03	.1100-02	.1440	.9330	547.8
16	125.40	.84000	857.00	.2760-01	.2250-01	.3310-01	.9133	.1006-02	.1483-02	.2020	1.249	542.2
16	125.40	.85000	858.00	.2730-01	.2220-01	.3260-01	.9133	.9950-03	.1467-02	.1990	1.239	542.6
16	125.40	.86000	859.00	.2880-01	.2350-01	.3460-01	.9133	.1050-02	.1550-02	.2100	1.317	542.9
16	125.40	.87000	860.00	.2860-01	.2320-01	.3430-01	.9133	.1041-02	.1537-02	.2070	1.306	543.2
16	125.40	.88000	861.00	.2900-01	.2360-01	.3480-01	.9133	.1055-02	.1560-02	.2100	1.319	543.9
16	125.40	.89000	862.00	.2760-01	.2240-01	.3320-01	.9133	.1004-02	.1487-02	.1990	1.257	544.6
16	125.40	.90000	863.00	.2270-01	.1840-01	.2730-01	.9133	.8258-03	.1223-02	.1640	1.042	544.4
16	125.40	.91000	864.00	.1270-01	.1040-01	.1530-01	.9133	.4636-03	.6842-03	.9300-01	.6740	543.0
16	125.40	.92600	865.00	.1600-01	.1300-01	.1930-01	.9133	.5811-03	.8630-03	.1140	.8300	545.6
16	129.30	.80000	866.00	.2340-01	.1910-01	.2810-01	.9132	.8536-03	.1256-02	.1720	1.082	541.5
16	129.30	.81000	867.00	.2410-01	.1970-01	.2900-01	.9132	.8807-03	.1297-02	.1770	1.108	541.8
16	129.30	.82000	868.00	.2400-01	.1960-01	.2880-01	.9132	.8765-03	.1290-02	.1760	1.104	541.5
16	129.30	.83000	869.00	.2360-01	.1920-01	.2830-01	.9132	.8607-03	.1266-02	.1730	1.088	541.4
16	135.00	.40000-01	870.00	.1707	.1362	.1656	.9561	.6099-02	.7413-02	1.123	7.178	558.5
16	135.00	.50000-01	871.00	.1711	.1372	.1689	.9526	.6140-02	.7563-02	1.149	7.314	555.4
16	135.00	.60000-01	872.00	.1387	.1107	.1393	.9492	.4955-02	.6236-02	.9100	6.010	558.8
16	135.00	.70000-01	873.00	.1183	.9480-01	.1207	.9459	.4243-02	.5405-02	.7930	5.369	555.8
16	135.00	.10000+00	875.00	.8290-01	.6730-01	.8830-01	.9369	.3012-02	.3954-02	.5920	3.889	545.9
16	135.00	.15000	876.00	.5520-01	.4490-01	.6250-01	.9246	.2011-02	.2799-02	.3990	2.927	543.9
16	135.00	.20000	877.00	.4530-01	.3700-01	.5350-01	.9162	.1655-02	.2397-02	.3330	2.248	541.6
16	135.00	.35000	878.00	.4480-01	.3660-01	.5380-01	.9131	.1638-02	.2407-02	.3310	2.065	540.4
16	135.00	.40000	879.00	.4020-01	.3290-01	.4830-01	.9131	.1471-02	.2160-02	.2980	1.892	540.3
16	135.00	.50000	880.00	.2950-01	.2400-01	.3540-01	.9131	.1077-02	.1587-02	.2160	1.488	541.8
16	135.00	.55000	881.00	.2420-01	.1970-01	.2900-01	.9131	.8824-03	.1298-02	.1780	1.189	540.9
16	135.00	.60000	882.00	.2850-01	.2330-01	.3420-01	.9131	.1042-02	.1531-02	.2110	1.420	540.4
16	135.00	.65000	883.00	.2940-01	.2400-01	.3530-01	.9131	.1074-02	.1579-02	.2170	1.482	540.9
16	135.00	.70000	884.00	.2660-01	.2160-01	.3200-01	.9131	.9683-03	.1431-02	.1930	1.377	542.9
16	135.00	.75000	885.00	.2400-01	.1950-01	.2890-01	.9131	.8738-03	.1293-02	.1740	1.099	543.3
16	135.00	.80000	886.00	.2530-01	.2060-01	.3030-01	.9131	.9220-03	.1358-02	.1850	1.168	541.6
16	135.00	.84000	887.00	.2280-01	.1860-01	.2740-01	.9131	.8344-03	.1227-02	.1680	1.060	540.9

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F05)

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
14	180.00	.40000-01	600.00	.1492	.1200	.1514	.9470	.5373-02	.6777-02	1.020	6.541	552.0
14	180.00	.50000-01	601.00	.1312	.1059	.1354	.9436	.4742-02	.6060-02	.9130	5.878	549.4
14	180.00	.60000-01	602.00	.1068	.8590-01	.1121	.9404	.3845-02	.5017-02	.7290	4.839	552.4
14	180.00	.70000-01	603.00	.9390-01	.7570-01	.1000+00	.9373	.3389-02	.4477-02	.6490	4.423	550.3
14	180.00	.80000-01	604.00	.7980-01	.6450-01	.8610-01	.9344	.2887-02	.3856-02	.5590	3.636	548.1
14	180.00	.10000+00	605.00	.5290-01	.4300-01	.5860-01	.9290	.1925-02	.2622-02	.3810	2.738	543.9
14	180.00	.15000	606.00	.3680-01	.3000-01	.4290-01	.9187	.1342-02	.1918-02	.2690	1.964	541.1
14	180.00	.20000	607.00	.2230-01	.1820-01	.2670-01	.9133	.8169-03	.1194-02	.1660	1.091	538.1
14	180.00	.21000	608.00	.1680-01	.1380-01	.2010-01	.9130	.6155-03	.8997-03	.1260	.8730	537.5
14	180.00	.22000	609.00	.1340-01	.1100-01	.1600-01	.9130	.4903-03	.7159-03	.1000+00	.7510	537.0
14	180.00	.35000	611.00	.1320-01	.1080-01	.1570-01	.9130	.4824-03	.7045-03	.9900-01	.6510	537.1
14	180.00	.36000	612.00	.1530-01	.1250-01	.1830-01	.9130	.5618-03	.8207-03	.1150	.7760	537.3
14	180.00	.37000	613.00	.1360-01	.1110-01	.1630-01	.9130	.4978-03	.7284-03	.1010	.6850	538.0
14	180.00	.37500	614.00	.1990-01	.1620-01	.2380-01	.9130	.7271-03	.1065-02	.1480	.9990	538.4
14	180.00	.38000	615.00	.2790-01	.2280-01	.3340-01	.9130	.1022-02	.1496-02	.2080	1.407	538.0
14	180.00	.38500	616.00	.2520-01	.2060-01	.3020-01	.9130	.9237-03	.1352-02	.1880	1.271	538.0
14	180.00	.39000	617.00	.2330-01	.1900-01	.2790-01	.9130	.8524-03	.1247-02	.1740	1.169	538.1
14	180.00	.39500	618.00	.2080-01	.1700-01	.2480-01	.9130	.7601-03	.1112-02	.1550	1.049	538.0
14	180.00	.40000	619.00	.2260-01	.1850-01	.2700-01	.9130	.8259-03	.1208-02	.1690	1.134	537.8
14	180.00	.40500	620.00	.2400-01	.1960-01	.2870-01	.9130	.8781-03	.1285-02	.1790	1.208	538.1
14	180.00	.41000	621.00	.2570-01	.2100-01	.3080-01	.9130	.9404-03	.1377-02	.1920	1.293	538.2
14	180.00	.41500	622.00	.2660-01	.2180-01	.3180-01	.9130	.9740-03	.1426-02	.1980	1.335	538.1
14	180.00	.42500	624.00	.2410-01	.1970-01	.2890-01	.9130	.8825-03	.1293-02	.1790	1.208	538.5
14	180.00	.43000	625.00	.2350-01	.1920-01	.2810-01	.9130	.8585-03	.1258-02	.1750	1.178	538.5
14	180.00	.44000	626.00	.2200-01	.1800-01	.2630-01	.9130	.8044-03	.1177-02	.1640	1.107	538.0
14	180.00	.44500	627.00	.2220-01	.1810-01	.2650-01	.9130	.8121-03	.1188-02	.1660	1.129	537.8
14	180.00	.45500	629.00	.2010-01	.1650-01	.2410-01	.9130	.7371-03	.1078-02	.1510	1.042	537.6
14	180.00	.46000	630.00	.2070-01	.1690-01	.2470-01	.9130	.7582-03	.1108-02	.1550	1.047	537.3
14	180.00	.47000	631.00	.2100-01	.1720-01	.2520-01	.9130	.7710-03	.1127-02	.1570	1.063	537.6
14	180.00	.49000	633.00	.1940-01	.1590-01	.2320-01	.9130	.7095-03	.1037-02	.1450	.9950	537.4
14	180.00	.50000	634.00	.1630-01	.1340-01	.1950-01	.9130	.5982-03	.8737-03	.1220	.8610	537.2
14	180.00	.55000	635.00	.1390-01	.1140-01	.1660-01	.9130	.5091-03	.7432-03	.1040	.6960	536.9
14	180.00	.60000	636.00	.1630-01	.1330-01	.1950-01	.9130	.5975-03	.8748-03	.1220	.7880	538.2
14	180.00	.65000	637.00	.1310-01	.1070-01	.1570-01	.9130	.4781-03	.7019-03	.9700-01	.6280	539.4
14	180.00	.70000	638.00	.1110-01	.9100-02	.1340-01	.9130	.4069-03	.5993-03	.8200-01	.5620	540.8
14	180.00	.75000	639.00	.5800-02	.4800-02	.7000-02	.9130	.2134-03	.3139-03	.4300-01	.2780	540.3
14	180.00	.90000	640.00	.8800-02	.7200-02	.1060-01	.9130	.3227-03	.4742-03	.6500-01	.4100	539.9
14	180.00	.85000	641.00	.1580-01	.1290-01	.1900-01	.9130	.5776-03	.8500-03	.1160	.7380	540.5
14	180.00	.86000	642.00	.1610-01	.1320-01	.1940-01	.9130	.5831-03	.8681-03	.1180	.7610	541.0
14	180.00	.87000	643.00	.1990-01	.1620-01	.2390-01	.9130	.7261-03	.1071-02	.1450	.9400	541.6
14	180.00	.88000	644.00	.2380-01	.1940-01	.2860-01	.9130	.8674-03	.1281-02	.1740	1.132	541.8
14	180.00	.89000	645.00	.2610-01	.2120-01	.3130-01	.9130	.9507-03	.1403-02	.1900	1.256	541.7
14	180.00	.90000	646.00	.2280-01	.1860-01	.2740-01	.9130	.8316-03	.1225-02	.1670	1.127	540.8

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F05)

IHN1(AEDC V41A-A4A) TI SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
14	180.00	.92600	648.00	.2700-01	.2200-01	.3250-01	.9130	.9842-03	.1455-02	.1960	1.434	542.5
14	180.00	.95000	649.00	.2900-01	.2360-01	.3500-01	.9130	.1056-02	.1566-02	.2090	1.515	543.6
14	191.25	.35000	650.00	.1160-01	.9500-02	.1380-01	.9130	.4246-03	.6189-03	.8700-01	.5900	536.3
14	191.25	.36000	651.00	.9200-02	.7600-02	.1100-01	.9130	.3383-03	.4929-03	.7000-01	.4720	536.1
14	191.25	.37000	652.00	.1100-01	.9100-02	.1320-01	.9130	.4052-03	.5911-03	.8300-01	.5620	536.6
14	191.25	.37500	653.00	.9900-02	.8100-02	.1180-01	.9130	.3617-03	.5275-03	.7400-01	.5030	536.6
14	191.25	.38000	654.00	.1140-01	.9400-02	.1370-01	.9130	.4197-03	.6127-03	.8600-01	.5830	536.9
14	191.25	.38500	655.00	.1140-01	.9400-02	.1370-01	.9130	.4193-03	.6121-03	.8600-01	.5820	536.9
14	191.25	.39000	656.00	.1380-01	.1130-01	.1650-01	.9130	.5044-03	.7369-03	.1030	.6990	537.3
14	191.25	.40000	658.00	.1220-01	.1000-01	.1450-01	.9130	.4459-03	.6507-03	.9100-01	.6220	536.7
14	191.25	.40500	659.00	.1410-01	.1150-01	.1680-01	.9130	.5162-03	.7536-03	.1060	.7190	536.9
14	191.25	.41000	660.00	.1560-01	.1270-01	.1860-01	.9130	.5702-03	.8339-03	.1160	.7880	537.8
14	191.25	.41500	661.00	.1860-01	.1520-01	.2220-01	.9130	.6797-03	.9954-03	.1380	.9340	538.3
14	191.25	.42000	662.00	.2000-01	.1640-01	.2400-01	.9130	.7329-03	.1074-02	.1490	1.007	538.8
14	191.25	.42500	663.00	.2020-01	.1650-01	.2420-01	.9130	.7380-03	.1082-02	.1500	1.018	538.7
14	191.25	.43000	664.00	.2080-01	.1700-01	.2490-01	.9130	.7605-03	.1115-02	.1540	1.058	538.9
14	191.25	.44000	665.00	.2120-01	.1730-01	.2540-01	.9130	.7749-03	.1136-02	.1570	1.071	538.8
14	191.25	.45000	666.00	.2260-01	.1840-01	.2710-01	.9130	.8257-03	.1211-02	.1670	1.141	539.0
14	191.25	.45500	667.00	.2260-01	.1840-01	.2700-01	.9130	.8253-03	.1210-02	.1680	1.142	538.7
14	191.25	.46000	668.00	.2270-01	.1860-01	.2720-01	.9130	.8317-03	.1219-02	.1690	1.154	538.8
14	191.25	.47000	669.00	.2210-01	.1810-01	.2650-01	.9130	.8103-03	.1187-02	.1650	1.130	528.4
14	191.25	.48000	670.00	.1970-01	.1610-01	.2360-01	.9130	.7223-03	.1057-02	.1470	1.010	537.9
14	191.25	.49000	671.00	.2290-01	.1870-01	.2740-01	.9130	.8365-03	.1226-02	.1700	1.161	538.7
14	191.25	.50000	672.00	.1910-01	.1560-01	.2290-01	.9130	.6983-03	.1023-02	.1420	.9910	538.7
14	191.25	.60000	673.00	.1510-01	.1230-01	.1810-01	.9130	.5517-03	.8104-03	.1120	.7180	539.6
14	191.25	.70000	674.00	.1320-01	.1070-01	.1590-01	.9130	.4811-03	.7109-03	.9600-01	.6550	542.2
14	191.25	.85000	676.00	.1120-01	.9100-02	.1340-01	.9130	.4088-03	.6020-03	.8200-01	.5210	540.8
14	191.25	.86000	677.00	.1320-01	.1080-01	.1590-01	.9130	.4830-03	.7119-03	.9700-01	.6210	541.2
14	191.25	.87000	678.00	.1610-01	.1310-01	.1930-01	.9130	.5859-03	.8649-03	.1170	.7580	541.7
14	191.25	.88000	679.00	.1980-01	.1620-01	.2390-01	.9130	.7232-03	.1069-02	.1440	.9440	542.2
14	191.25	.89000	680.00	.2210-01	.1800-01	.2660-01	.9130	.8071-03	.1193-02	.1610	1.069	542.2
14	191.25	.90000	681.00	.2140-01	.1750-01	.2590-01	.9130	.7813-03	.1154-02	.1560	1.055	542.0
14	191.25	.91000	682.00	.1320-01	.1080-01	.1590-01	.9130	.4819-03	.7095-03	.9700-01	.7090	540.7
14	191.25	.92600	683.00	.2340-01	.1900-01	.2810-01	.9130	.8516-03	.1259-02	.1700	1.245	542.5
14	191.25	.95000	684.00	.2520-01	.2050-01	.3040-01	.9130	.9164-03	.1359-02	.1820	1.314	543.6
14	197.00	.33000	685.00	.7000-02	.5700-02	.8300-02	.9130	.2551-03	.3715-03	.5300-01	.3550	535.8
14	197.00	.34000	686.00	.7300-02	.6000-02	.8700-02	.9130	.2672-03	.3890-03	.5500-01	.3720	535.8
14	197.00	.35000	687.00	.9200-02	.7500-02	.1100-01	.9130	.3376-03	.4914-03	.7000-01	.4700	535.7
14	197.00	.36000	688.00	.8200-02	.6700-02	.9800-02	.9130	.2998-03	.4366-03	.6200-01	.4170	535.9
14	197.00	.37000	689.00	.9200-02	.7500-02	.1090-01	.9130	.3361-03	.4895-03	.6900-01	.4680	535.9
14	197.00	.50000	691.00	.2240-01	.1830-01	.2680-01	.9130	.8199-03	.1202-02	.1670	1.124	538.7
14	197.00	.60000	692.00	.1730-01	.1410-01	.2070-01	.9130	.6311-03	.9275-03	.1270	.8250	539.9
14	197.00	.70000	693.00	.2250-01	.1830-01	.2700-01	.9130	.8209-03	.1209-02	.1650	1.123	540.7

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F05)

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
15	197.00	.80000	694.00	.1650-01	.1340-01	.1980-01	.9130	.6019-03	.8873-03	.1210	.7610	541.2
16	197.00	.87000	695.00	.3320-01	.2710-01	.3980-01	.9130	.1211-02	.1783-02	.2450	1.564	542.2
16	197.00	.92600	696.00	.2100-01	.1716-01	.2520-01	.9130	.7658-03	.1128-02	.1550	1.133	542 5
15	209.80	.50000-01	699.00	.1231	.9960-01	.1290	.9402	.4461-02	.5777-02	.8670	5.513	546.1
15	209.80	.70000-01	700.00	.8250-01	.6670-01	.8920-01	.9341	.2987-02	.3992-02	.5790	3.917	546.5
15	209.80	.10000+00	701.00	.5180-01	.4220-01	.5810-01	.9262	.1890-02	.2590-02	.3780	2.418	540.4
15	209.80	.15000	702.00	.2800-01	.2290-01	.3280-01	.9168	.1025-02	.1470-02	.2090	1.501	536.8
15	209.80	.20000	703.00	.1190-01	.9800 02	.1420-01	.9130	.4376-03	.6359-03	.9000-01	.6060	533.9
15	209.80	.30000	704.00	.3400-02	.2800-02	.4100-02	.9130	.1254-03	.1821-03	.2600-01	.1650	533.5
15	209.80	.35000	705.00	.4700-02	.3800-02	.5500-02	.9130	.1711-03	.2484-03	.3500-01	.2440	533.5
15	209.80	.37500	706.00	.4800-02	.3900-02	.5700-02	.9130	.1768-03	.2566-03	.3700-01	.2530	533.2
15	209.80	.50000	707.00	.1970-01	.1610-01	.2360-01	.9130	.7222-03	.1058-02	.1460	1.007	537.6
15	209.80	.60000	708.00	.2530-01	.2070-01	.3040-01	.9130	.9262-03	.1360-02	.1870	1.197	538.5
15	209.80	.70000	709.00	.2230-01	.1810-01	.2680-01	.9130	.8121-03	.1201-02	.1620	1.032	541.5
15	209.80	.80000	710.00	.2140-01	.1740-01	.2570-01	.9130	.7803-03	.1152-02	.1560	.9730	541.0
15	209.80	.87000	711.00	.2380-01	.1930-01	.2870-01	.9130	.8655-03	.1283-02	.1710	1.085	542.6
15	209.80	.92600	712.00	.2120-01	.1730-01	.2560-01	.9130	.7723-03	.1147-02	.1520	1.109	543 3
15	217.70	.50000-01	715.00	.1025	.8320-01	.1076	.9398	.3724-02	.4818-02	.7310	4.776	544.1
15	217.70	.70000-01	716.00	.7070-01	.5730-01	.7650-01	.9337	.2564-02	.3425-02	.5010	3.423	545.0
15	217.70	.10000+00	717.00	.4410-01	.3600 01	.4950-01	.9259	.1611-02	.2215-02	.3250	2.113	539.0
15	217.70	.15000	718.00	.2190-01	.1790-01	.2560-01	.9166	.8019-03	.1148-02	.1640	1.209	535.6
15	217.70	.20000	719.00	.1310-01	.1080-01	.1570-01	.9130	.4832-03	.7011-03	.1000+00	.6800	533.2
15	217.70	.30000	720.00	.3200-02	.2600-02	.3800-02	.9130	.1161-03	.1686-03	.2400-01	.1730	533.4
15	217.70	.35000	721.00	.3700-02	.3000-02	.4400-02	.9130	.1346-03	.1953-03	.2800-01	.1950	533.3
15	217.70	.37500	722.00	.2500-02	.2100-02	.3000-02	.9130	.9249-04	.1343-03	.1900-01	.1340	533.4
15	217.70	.50000	723.00	.1520-01	.1250-01	.1820-01	.9130	.5575-03	.8166-03	.1130	.7860	537.4
15	217.70	.60000	724.00	.3030-01	.2470-01	.3650-01	.9130	.1108-02	.1632-02	.2220	1.426	539.8
15	217.70	.70000	725.00	.2730-01	.2220-01	.3290-01	.9130	.9942-03	.1473-02	.1970	1.256	542.2
15	217.70	.80000	726.00	.2300-01	.1870-01	.2780-01	.9130	.8358-03	.1243-02	.1640	1.035	543.7
15	217.70	.87000	727.00	.2450-01	.1990-01	.2950-01	.9130	.8906-03	.1322-02	.1760	1.126	543.1
15	217.70	.92600	728.00	.1660-01	.1340-01	.2000-01	.9130	.6015-03	.8949-03	.1180	.8610	543.9

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F08)

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = .0000 BETA = .0000 GRIT = 3.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
46	4.520	5.171	.1000-01	.0000	.0000	97.50	.3280	656.0	129.1	4.697	2516.	.2135-03
47	4.520	5.122	-.3000-01	.0000	.0000	97.60	.3290	661.0	130.0	4.703	2523.	.2123-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
46	.1039-06	.4738-01	.1129-01
47	.1046-06	.4746-01	.1133-01

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
47	.00000	.40000-01	737.00	.1796	.1198	.1675	.9572	.5685-02	.7947-02	.5640	3.654	561.8
47	.00000	.45000-01	738.00	.1863	.1246	.1768	.9555	.5915-02	.8390-02	.5900	3.881	561.2
47	.00000	.60000-01	739.00	.1735	.1176	.1731	.9503	.5582-02	.8214-02	.5730	3.826	558.5
47	.00000	.70000-01	740.00	.4834	.3003	.5016	.9470	.1425-01	.2381-01	1.243	8.295	573.8
47	.00000	.80000-01	741.00	.3509	.2284	.3753	.9440	.1084-01	.1781-01	1.025	7.382	566.4
47	.00000	.10000+00	742.00	.2227	.1526	.2496	.9383	.7244-02	.1185-01	.7610	5.060	556.0
47	.00000	.12500	743.00	.1659	.1136	.1986	.9321	.5392-02	.9424-02	.5650	4.092	556.2
47	.00000	.15000	744.00	.1265	.8820-01	.1576	.9270	.4184-02	.7479-02	.4580	3.177	551.6
47	.00000	.17500	745.00	.8650-01	.6150-01	.1109	.9230	.2919-02	.5261-02	.3330	2.506	546.8
47	.00000	.20000	746.00	.6170-01	.4450-01	.8020-01	.9202	.2112-02	.3808-02	.2500	1.794	542.6
47	.00000	.21500	747.00	.4390-01	.3170-01	.5750-01	.9191	.1504-02	.2728-02	.1790	1.246	541.8
47	.00000	.23000	748.00	.3440-01	.2490-01	.4540-01	.9184	.1182-02	.2156-02	.1410	1.045	541.7
47	.00000	.24000	749.00	.2920-01	.2110-01	.3860-01	.9183	.9993-03	.1832-02	.1190	.8970	542.3
47	.00000	.25000	750.00	.1500-01	.1080-01	.1970-01	.9183	.5135-03	.9366-03	.6100-01	.4980	541.5
47	.00000	.30000	751.00	.4320-01	.3110-01	.5740-01	.9183	.1475-02	.2724-02	.1740	1.143	543.2
47	.00000	.35000	752.00	.4340-01	.3130-01	.5770-01	.9183	.1483-02	.2739-02	.1750	1.106	543.2
47	.00000	.40000	753.00	.4110-01	.2950-01	.5490-01	.9183	.1400-02	.2604-02	.1630	1.052	544.3
47	.00000	.50000	754.00	.4160-01	.2970-01	.5580-01	.9183	.1410-02	.2650-02	.1630	1.065	545.7
47	.00000	.60000	755.00	.4520-01	.3220-01	.6050-01	.9183	.1530-02	.2872-02	.1770	1.134	545.5
47	.00000	.70000	756.00	.4920-01	.3470-01	.6690-01	.9183	.1648-02	.3173-02	.1850	1.221	548.7

(RV7F06)

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R=TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
47	.00000	.80000	757.00	.4800-01	.3380-01	.6540-01	.9183	.1605-02	.3102-02	.1800	1.124	549.1
47	.00000	.90000	758.00	.1300-01	.9100-02	.1780-01	.9183	.4332-03	.8435-03	.4800-01	.3110	550.0
47	55.000	.22000	759.00	.4450-01	.3240-01	.5800-01	.9188	.1538-02	.2754-02	.1870	1.395	539.6
47	55.000	.25000	760.00	.1910-01	.1380-01	.2510-01	.9183	.6566-03	.1192-02	.7900-01	.6200	540.8
47	55.000	.27000	761.00	.2370-01	.1710-01	.3140-01	.9183	.8099-03	.1489-02	.9600-01	.7150	542.6
47	55.000	.30000	762.00	.4350-01	.3150-01	.5740-01	.9183	.1494-02	.2724-02	.1790	1.078	541.4
47	55.000	.32000	763.00	.4630-01	.3360-01	.6090-01	.9183	.1593-02	.2892-02	.1920	1.137	540.8
47	55.000	.34000	764.00	.4080-01	.2950-01	.5380-01	.9183	.1400-02	.2553-02	.1670	.9960	541.4
47	55.000	.36000	765.00	.4080-01	.2950-01	.5380-01	.9183	.1401-02	.2555-02	.1670	1.021	541.5
47	55.000	.38000	766.00	.3890-01	.2810-01	.5140-01	.9183	.1335-02	.2440-02	.1590	.9970	541.8
47	55.000	.40000	767.00	.4170-01	.3040-01	.5450-01	.9184	.1441-02	.2585-02	.1750	1.310	539.3
47	67.500	.23000	768.00	.2160-01	.1570-01	.2850-01	.9183	.7440-03	.1352-02	.8900-01	.6970	540.9
47	67.500	.25000	769.00	.3080-01	.2220-01	.4080-01	.9183	.1055-02	.1936-02	.1250	.9150	542.4
47	67.500	.27000	770.00	.2990-01	.2160-01	.3950-01	.9183	.1025-02	.1873-02	.1220	.7590	541.8
47	67.500	.29000	771.00	.4270-01	.3080-01	.5640-01	.9183	.1464-02	.2679-02	.1740	1.068	541.9
47	67.500	.30000	772.00	.4280-01	.3100-01	.5640-01	.9183	.1472-02	.2678-02	.1770	1.073	541.1
47	67.500	.31000	773.00	.4460-01	.3250-01	.5850-01	.9183	.1542-02	.2778-02	.1870	1.128	539.7
47	67.500	.32000	774.00	.4970-01	.3620-01	.6530-01	.9183	.1717-02	.3097-02	.2080	1.259	539.8
47	67.500	.32500	775.00	.4350-01	.3160-01	.5720-01	.9183	.1500-02	.2713-02	.1810	1.099	540.3
47	67.500	.33000	776.00	.4690-01	.3400-01	.6160-01	.9183	.1616-02	.2922-02	.1950	1.184	540.3
47	67.500	.33500	777.00	.4770-01	.3460-01	.6280-01	.9183	.1644-02	.2980-02	.1980	1.201	540.6
47	67.500	.34000	778.00	.4640-01	.3370-01	.6100-01	.9183	.1598-02	.2895-02	.1930	1.172	540.5
47	67.500	.34500	779.00	.4330-01	.3140-01	.5700-01	.9183	.1492-02	.2705-02	.1800	1.095	540.6
47	67.500	.35000	780.00	.4190-01	.3040-01	.5530-01	.9183	.1442-02	.2624-02	.1730	1.056	541.2
47	67.500	.35500	781.00	.4660-01	.3370-01	.6130-01	.9183	.1601-02	.2911-02	.1920	1.174	541.0
47	67.500	.36000	782.00	.4330-01	.3140-01	.5690-01	.9183	.1490-02	.2701-02	.1790	1.094	540.6
47	67.500	.36500	783.00	.3840-01	.2780-01	.5070-01	.9183	.1318-02	.2405-02	.1570	.9640	541.6
47	67.500	.37000	784.00	.3510-01	.2540-01	.4630-01	.9183	.1204-02	.2197-02	.1440	.8890	541.6
47	67.500	.37500	785.00	.3750-01	.2710-01	.4950-01	.9183	.1286-02	.2351-02	.1530	.9510	541.8
47	67.500	.38000	786.00	.3680-01	.2660-01	.4860-01	.9183	.1261-02	.2306-02	.1500	.9340	541.8
47	67.500	.39000	787.00	.4160-01	.3010-01	.5500-01	.9183	.1426-02	.2611-02	.1700	1.066	541.8
47	67.500	.40000	788.00	.3820-01	.2760-01	.5050-01	.9183	.1308-02	.2398-02	.1550	.9980	542.3
47	67.500	.50000	789.00	.4030-01	.2930-01	.5290-01	.9183	.1390-02	.2512-02	.1680	1.106	540.2
47	67.500	.60000	790.00	.3610-01	.2580-01	.4820-01	.9183	.1224-02	.2288-02	.1420	1.006	544.9
47	67.500	.70000	791.00	.3620-01	.2600-01	.4810-01	.9183	.1236-02	.2283-02	.1450	.9160	543.3
47	67.500	.80000	792.00	.2340-01	.1670-01	.3140-01	.9183	.7920-03	.1492-02	.9100-01	.5880	546.0
47	67.500	.90000	793.00	.2960-01	.2130-01	.3920-01	.9183	.1011-02	.1862-02	.1190	.8530	542.9
47	78.000	.27000	794.00	.9600-02	.6900-02	.1260-01	.9183	.3279-03	.6004-03	.3900-01	.2410	542.0
47	78.000	.29000	795.00	.2023	.1403	.1901	.9573	.6646-02	.9006-02	.7110	4.568	549.3
46	180.00	.40000-01	600.00	.1736	.1208	.1681	.9537	.5723-02	.7967-02	.6170	3.977	548.5
46	180.00	.50000-01	601.00	.2954	.1967	.2954	.9503	.9320-02	.1400-01	.9100	6.022	558.8
46	180.00	.60000-01	602.00	.6007	.3404	.6289	.9471	.1613-01	.2980-01	1.221	8.194	580.6
46	180.00	.70000-01	603.00	.3817	.2482	.4081	.9440	.1176-01	.1934-01	1.104	7.123	562.5
46	180.00	.80000-01	604.00									

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F06)

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
46	180.00	.10000+00	605.00	.2214	.1491	.2498	.9383	.7064-02	.1183-01	.7100	5.070	555.9
46	180.00	.15000	606.00	.1191	.8160-01	.1510	.9271	.3865-02	.7156-02	.4020	2.916	552.3
46	180.00	.20000	607.00	.6470-01	.4550-01	.8620-01	.9202	.2158-02	.4085-02	.2390	1.563	545.4
46	180.00	.21000	608.00	.5130-01	.3630-01	.6860-01	.9194	.1719-02	.3252-02	.1930	1.334	544.2
46	180.00	.22000	609.00	.4370-01	.3100-01	.5870-01	.9188	.1467-02	.2781-02	.1650	1.233	543.6
46	180.00	.30000	610.00	.4350-01	.3090-01	.5840-01	.9183	.1466-02	.2769-02	.1670	1.147	542.4
46	180.00	.35000	611.00	.3760-01	.2670-01	.5070-01	.9183	.1264-02	.2400-02	.1430	.9560	543.1
46	180.00	.36000	612.00	.3900-01	.2770-01	.5250-01	.9183	.1313-02	.2485-02	.1490	1.005	542.7
46	180.00	.37000	613.00	.4110-01	.2920-01	.5530-01	.9183	.1386-02	.2622-02	.1580	1.061	542.6
46	180.00	.37500	614.00	.3910-01	.2790 01	.5260-01	.9183	.1320-02	.2492-02	.1500	1.014	542.4
46	180.00	.38000	615.00	.3290-01	.2340-01	.4420-01	.9183	.1108-02	.2095-02	.1260	.8500	542.5
46	180.00	.38500	616.00	.3500-01	.2490-01	.4710-01	.9183	.1178-02	.2230-02	.1340	.9020	542.7
46	180.00	.39000	617.00	.3980-01	.2830-01	.5340-01	.9183	.1342-02	.2532-02	.1530	1.029	542.3
46	180.00	.39500	618.00	.4050-01	.2880-01	.5460-01	.9183	.1366-02	.2585-02	.1550	1.050	542.6
46	180.00	.40000	619.00	.3320-01	.2360-01	.4480-01	.9183	.1118-02	.2122-02	.1270	.8510	543.0
46	180.00	.40500	620.00	.3780-01	.2690-01	.5080-01	.9183	.1273-02	.2409-02	.1450	.9760	542.6
46	180.00	.41000	621.00	.4260-01	.3030-01	.5720-01	.9183	.1437-02	.2712-02	.1640	1.103	542.4
46	180.00	.41500	622.00	.4430-01	.3150-01	.5950-01	.9183	.1493-02	.2821-02	.1700	1.141	542.5
46	180.00	.42500	624.00	.4750-01	.3370-01	.6420-01	.9183	.1596-02	.3043-02	.1800	1.209	543.6
46	180.00	.43000	625.00	.4680-01	.3320-01	.6320-01	.9183	.1571-02	.2996-02	.1770	1.192	543.6
46	180.00	.44000	626.00	.4410-01	.3140-01	.5950-01	.9183	.1486-02	.2821-02	.1680	1.134	543.1
46	180.00	.44500	627.00	.3970-01	.282C-01	.5350-01	.9183	.1336-02	.2536-02	.1510	1.029	543.1
46	180.00	.45500	629.00	.3510-01	.2490-01	.4730-01	.9183	.1179-02	.2242-02	.1330	.9200	543.3
46	180.00	.46000	630.00	.3680-01	.2610-01	.4960-01	.9183	.1238-02	.2350-02	.1400	.9450	543.1
46	180.00	.47000	631.00	.3690-01	.2620-01	.4990-01	.9183	.1241-02	.2363-02	.1400	.9430	543.5
46	180.00	.49000	633.00	.3650-01	.2590-01	.4920-01	.9183	.1225-02	.2333-02	.1380	.9460	543.4
46	180.00	.50000	634.00	.3250-01	.2310-01	.4380-01	.9183	.1094-02	.2075-02	.1240	.8700	542.9
46	180.00	.55000	635.00	.2970-01	.211C-01	.4000-01	.9183	.9979-03	.1897-02	.1130	.7510	543.2
46	180.00	.60000	636.00	.3580-01	.2540-01	.4850-01	.9183	.1201-02	.2297-02	.1350	.8720	544.0
46	180.00	.65000	637.00	.3640-01	.2570-01	.4940-01	.9183	.1217-02	.2340-02	.1360	.8800	544.7
46	180.00	.70000	638.00	.3500-01	.2460-01	.4770-01	.9183	.1168-02	.2260-02	.1300	.8870	545.4
46	180.00	.75000	639.00	.3260-01	.2310-01	.4420-01	.9183	.1095-02	.2094-02	.1230	.7950	543.9
46	180.00	.80000	640.00	.3250-01	.2290-01	.4410-01	.9183	.1085-02	.2091-02	.1210	.7580	544.9
46	180.00	.85000	641.00	.3080-01	.2170-01	.4190-01	.9183	.1027-02	.1985-02	.1140	.7220	545.2
46	180.00	.86000	642.00	.3230-01	.2310-01	.4470-01	.9183	.1093-02	.2116-02	.1210	.7770	545.5
46	180.00	.87000	643.00	.3890-01	.2740-01	.5310-01	.9183	.1297-02	.2518-02	.1430	.9260	545.8
46	180.00	.88000	644.00	.4270-01	.3000-01	.5840-01	.9183	.1424-02	.2765-02	.1570	1.024	545.8
46	180.00	.89000	645.00	.3380 01	.2370-01	.4620-01	.9183	.1125-02	.2187-02	.1240	.8180	545.9
46	180.00	.90000	646.00	.2020-01	.1420-01	.2740-01	.9183	.6751-03	.1297-02	.7500-01	.5080	544.5
46	180.00	.92600	648.00	.1700-01	.1200-01	.2320-01	.9183	.5682-03	.1100-02	.6300-01	.4600	545.5
46	180.00	.95000	649.00	.4150-01	.2910-01	.5670-01	.9183	.1380-02	.2686-02	.1520	1.101	546.0
46	191.25	.35000	650.00	.4870-01	.3460-01	.6580-01	.9183	.1637-02	.3117-02	.1850	1.245	543.4
46	191.25	.36000	651.00	.4390-01	.3110-01	.5920-01	.9183	.1475-02	.2806-02	.1670	1.126	543.3

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OF POOR QUALITY

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F06)

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
46	191.25	.37000	652.00	.4380-01	.3110-01	.5910-01	.9183	.1472-02	.2799-02	.1670	1.122	543.2
46	191.25	.37500	653.00	.4190-01	.2970-01	.5650-01	.9183	.1408-02	.2678-02	.1590	1.076	543.3
46	191.25	.38000	654.00	.4050-01	.2880-01	.5470-01	.9183	.1363-02	.2590-02	.1540	1.042	543.2
46	191.25	.38500	655.00	.3840-01	.2720-01	.5190-01	.9183	.1290-02	.2459-02	.1460	.9830	543.6
46	191.25	.39000	656.00	.4000-01	.2830-01	.5410-01	.9183	.1343-02	.2562-02	.1510	1.022	543.6
46	191.25	.39500	657.00	.5090-01	.3600-01	.6900-01	.9183	.1705-02	.3269-02	.1910	1.290	544.3
46	191.25	.40000	658.00	.4210-01	.2980-01	.5710-01	.9183	.1412-02	.2706-02	.1580	1.072	544.2
46	191.25	.40500	659.00	.3650-01	.2580-01	.4950-01	.9183	.1222-02	.2343-02	.1370	.9280	544.3
46	191.25	.41000	660.00	.4020-01	.2860-01	.5430-01	.9183	.1354-02	.2572-02	.1530	1.036	543.1
46	191.25	.41500	661.00	.4290-01	.3040-01	.5780-01	.9183	.1443-02	.2739-02	.1630	1.101	543.1
46	191.25	.42000	662.00	.4230-01	.3000-01	.5720-01	.9183	.1422-02	.2710-02	.1600	1.083	543.6
46	191.25	.42500	663.00	.4090-01	.2900-01	.5520-01	.9183	.1374-02	.2615-02	.1550	1.052	543.4
46	191.25	.43000	664.00	.4240-01	.3010-01	.5740-01	.9183	.1426-02	.2718-02	.1610	1.100	543.5
46	191.25	.44000	665.00	.4190-01	.2970-01	.5670-01	.9183	.1408-02	.2686-02	.1590	1.078	543.7
46	191.25	.45000	666.00	.3900-01	.2770-01	.5270-01	.9183	.1310-02	.2496-02	.1480	1.005	543.5
46	191.25	.45500	667.00	.4040-01	.2860-01	.5450-01	.9183	.1355-02	.2585-02	.1530	1.038	543.6
46	191.25	.46000	668.00	.4070-01	.2890-01	.5500-01	.9183	.1369-02	.2608-02	.1550	1.053	543.5
46	191.25	.47000	669.00	.4110-01	.2920-01	.5540-01	.9183	.1382-02	.2626-02	.1560	1.070	543.2
46	191.25	.48000	670.00	.4070-01	.2890-01	.5470-01	.9183	.1370-02	.2594-02	.1560	1.065	542.7
46	191.25	.49000	671.00	.4180-01	.2970-01	.5660-01	.9183	.1405-02	.2682-02	.1580	1.078	543.7
46	191.25	.50000	672.00	.3960-01	.2810-01	.5350-01	.9183	.1334-02	.2536-02	.1510	1.050	543.3
46	191.25	.60000	673.00	.4220-01	.2970-01	.5740-01	.9183	.1408-02	.2719-02	.1560	1.004	545.2
46	191.25	.70000	674.00	.3730-01	.2610-01	.5110-01	.9183	.1239-02	.2422-02	.1360	.9250	546.6
46	191.25	.85000	676.00	.3440-01	.2420-01	.4680-01	.9183	.1146-02	.2218-02	.1270	.8040	545.4
46	191.25	.86000	677.00	.3420-01	.2410-01	.4670-01	.9183	.1140-02	.2211-02	.1260	.8070	545.7
46	191.25	.87000	678.00	.3470-01	.2440-01	.4740-01	.9183	.1156-02	.2244-02	.1280	.8250	5 5.8
46	191.25	.88000	679.00	.3410-01	.2400-01	.4670-01	.9183	.1136-02	.2211-02	.1260	.8170	546.1
46	191.25	.89000	680.00	.3470-01	.2430-01	.4740-01	.9183	.1153-02	.2246-02	.1270	.8420	546.2
46	191.25	.90000	681.00	.2760-01	.1940-01	.3780-01	.9183	.9208-03	.1789-02	.1020	.6860	545.9
46	191.25	.91000	682.00	.6800-02	.4800-02	.9100-02	.9183	.2267-03	.4333-03	.2500-01	.1860	543.9
46	191.25	.92600	683.00	.1650-01	.1160-01	.2250-01	.9183	.5511-03	.1065-02	.6100-01	.4480	545.3
46	191.25	.95000	684.00	.4050-01	.2850-01	.5520-01	.9183	.1349-02	.2616-02	.1490	1.079	545.7
46	197.00	.33000	685.00	.4700-01	.3330-01	.6340-01	.9183	.1580-02	.3003-02	.1790	1.204	543.2
46	197.00	.34000	686.00	.4550-01	.3230-01	.6130-01	.9193	.1530-02	.2907-02	.1730	1.166	543.2
46	197.00	.35000	687.00	.4100-01	.2920-01	.5530-01	.9183	.1382-02	.2620-02	.1570	1.056	542.9
46	197.00	.36000	688.00	.4500-01	.3200-01	.6070-01	.9183	.1514-02	.2876-02	.1720	1.155	543.1
46	197.00	.37000	689.00	.4490-01	.3190-01	.6060-01	.9183	.1511-02	.2859-02	.1710	1.153	543.1
46	197.00	.37500	690.00	.4170-01	.2950-01	.5640-01	.9183	.1398-02	.2671-02	.1570	1.062	543.9
47	197.00	.50000	691.00	.3990-01	.2830-01	.5380-01	.9183	.1341-02	.2551-02	.1520	1.020	543.3
47	197.00	.60000	692.00	.4090-01	.2900-01	.5540-01	.9183	.1374-02	.2627-02	.1540	.9970	544.0
47	197.00	.70000	693.00	.3280-01	.2310-01	.4450-01	.9183	.1097-02	.2110-02	.1220	.8310	544.7
47	197.00	.80000	694.00	.3780-01	.2670-01	.5140-01	.9183	.1267-02	.2433-02	.1420	.8920	544.5
47	197.00	.87000	695.00	.3810-01	.2690-01	.5190-01	.9183	.1272-02	.2461-02	.1410	.9010	545.3

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F06)

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
47	197.00	.92600	696.00	.2100-01	.1480-01	.2860-01	.9183	.7012-03	.1356-02	.7800-01	.5700	545.3
47	209.80	.50000-01	699.00	.1859	.1269	.1796	.9538	.6021-02	.8524-02	.6260	3.962	557.0
47	209.80	.70000-01	700.00	.4086	.2611	.4223	.9471	.1239-01	.2004-01	1.134	7.583	568.5
47	209.80	.10000+00	701.00	.2639	.1763	.2984	.9384	.8369-02	.1416-01	.8340	5.276	561.4
47	209.80	.15000	702.00	.1247	.8540-01	.1581	.9271	.4052-02	.7504-02	.4250	3.022	556.3
47	209.80	.20000	703.00	.6690-01	.4760-01	.8810-01	.9202	.2258-02	.4182-02	.2590	1.725	548.4
47	209.80	.30000	704.00	.4260-01	.3050-01	.5700-01	9183	.1447-02	.2703-02	.1680	1.193	544.8
47	209.80	.35000	705.00	.4000-01	.2860-01	.5340-01	.9183	.1359-02	.2534-02	.1580	1.085	544.6
47	209.80	.37500	706.00	.3650-01	.2620-01	.4880-01	.9183	.1241-02	.2314-02	.1450	.9540	544.6
47	209.80	.50000	707.00	.3690-01	.2640-01	.4930-01	.9183	.1255-02	.2338-02	.1460	1.002	544.5
47	209.80	.60000	708.00	.3820-01	.2730-01	.5110-01	.9183	.1297-02	.2425-02	.1510	.9610	544.9
47	209.80	.70000	709.00	.4150-01	.2950-01	.5600-01	.9183	.1402-02	.2656-02	.1600	1.022	546.7
47	209.80	.80000	710.00	.4070-01	.2900-01	.5460-01	.9183	.1378-02	.2592-02	.1590	.9910	545.7
47	209.80	.87000	711.00	.4400-01	.3140-01	.5900-01	.9183	.1469-02	.2799-02	.1720	1.086	545.7
47	209.80	.92600	712.00	.2440-01	.1730-01	.3300-01	.9183	.8192-03	.1568-02	.9300-01	.6730	547.9
47	217.70	.50000-01	715.00	.1816	.1238	.1754	.9538	.5877-02	.8323-02	.6110	3.965	557.1
47	217.70	.70000-01	716.00	.5281	.3201	.5486	.9471	.1519-01	.2604-01	1.275	8.572	577.1
47	217.70	.10000+00	717.00	.2382	.1607	.2683	.9383	.7627-02	.1274-01	.7750	4.995	559.4
47	217.70	.15000	718.00	.1220	.8370-01	.1544	.9271	.3973-02	.7330-02	.4180	3.047	555.8
47	217.70	.20000	719.00	.6370-01	.4540-01	.8370-01	.9202	.2154-02	.3972-02	.2480	1.674	545.8
47	217.70	.30000	720.00	.4360-01	.3120-01	.5840-01	.9183	.1480-02	.2770-02	.1720	1.230	545.0
47	217.70	.35000	721.00	.4190-01	.3010-01	.5590-01	.9183	.1426-02	.2654-02	.1670	1.155	544.3
47	217.70	.37500	722.00	.3730-01	.2670-01	.4990-01	.9183	.1267-02	.2370-02	.1470	1.019	545.0
47	217.70	.50000	723.00	.4050-01	.2910-01	.5400-01	.9183	.1381-02	.2561-02	.1620	1.120	543.8
47	217.70	.60000	724.00	.3880-01	.2780-01	.5180-01	.9183	.1321-02	.2459-02	.1540	.9870	544.3
47	217.70	.70000	725.00	.3960-01	.2830-01	.5320-01	.9183	.1341-02	.2524-02	.1550	.9830	545.8
47	217.70	.80000	726.00	.3970-01	.2840-01	.5310-01	.9183	.1347-02	.2518-02	.1560	.9840	544.9
47	217.70	.87000	727.00	.4230-01	.3030-01	.5660-01	.9183	.1436-02	.2685-02	.1670	1.067	544.9
47	217.70	.92600	728.00	.2430-01	.1730-01	.3290-01	.9183	.8195-03	.1561-02	.9300-01	.6770	547.3

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F06)

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = .0000 BETA = .0000 GRIT = 3.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
17	5.500	4.928	.1000-01	.0000	.0000	177.7	.1910	746.0	105.8	4.044	2772.	.1514-03
18	5.500	4.985	-.1000-01	.0000	.0000	178.0	.1910	741.0	105.1	4.051	2763.	.1527-03
19	5.500	5.006	-.1000-01	.0000	.0000	178.0	.1910	739.0	104.8	4.051	2759.	.1531-03
39	5.500	4.973	.2000-01	.0000	.0000	177.9	.1910	742.0	105.2	4.048	2765.	.1524-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
17	.8519-07	.4478-01	.1369-01
18	.8463-07	.4478-01	.1362-01
19	.8440-07	.4476-01	.1360-01
39	.8473-07	.4477-01	.1363-01

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
39	.00000	.12000-01	977.00	.6446	.4769	.58	.9637	.2135-01	.2632-01	3.043	18.79	599.4
39	.00000	.15100-01	978.00	.4780	.3705	.4	.9618	.1659-01	.2002-01	2.737	18.46	576.9
39	.00000	.18000-01	979.00	.3721	.2908	.35	.9607	.1302-01	.1572-01	2.210	15.07	572.2
39	.00000	.24000-01	980.00	.3046	.2398	.29	.9585	.1073-01	.1304-01	1.871	12.41	567.6
39	.00000	.33000-01	981.00	.2523	.1999	.24	.9563	.8947-02	.1093-01	1.597	10.15	563.5
18	.00000	.40000-01	737 00	.1656	.1332	.161	.9556	.5963-02	.7220-02	1.127	7.335	552.1
18	.00000	.45000-01	738.00	.1686	.1357	.165	.9538	.6074-02	.7414-02	1.151	7.601	551.7
18	.00000	.60000-01	739.00	.1395	.1115	.1405	.9486	.4994-02	.6291-02	.9220	6.167	556.5
18	.00000	.70000-01	740.00	.2262	.1770	.2322	.9453	.7926-02	.1040-01	1.351	9.027	570.7
18	.00000	.80000-01	741.00	.2896	.2255	.3034	.9422	.1010-01	.1358-01	1.697	12.10	574.1
18	.00000	.10000+00	742.00	.2461	.1958	.2648	.9363	.8767-02	.1186-01	1.590	10.55	559.8
18	.00000	.12500	743.00	.1674	.1328	.1872	.9297	.5944-02	.8383-02	1.065	7.635	561.9
18	.00000	.15000	744.00	.1224	.9830-01	.1403	.9240	.4400-02	.6284-02	.8270	5.730	553.2
18	.00000	.17500	745.00	.7600-01	.6160-01	.8880-01	.93	.2758-02	.3976-02	.5380	4.346	546.0
18	.00000	.20000	746.00	.5310-01	.4330-01	.6230-01	.9	.1939-02	.2818-02	.3870	2.777	541.3
18	.00000	.21500	747.00	.3780-01	.3080-01	.4510-01		.1381-02	.2013-02	.2780	1.934	539.8

DATE 03 JUN 76

AEDC V41A-A4A (1H-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F08)

IH41(AEDC V41A-A4A) TI SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
18	.00000	.23000	748.00	.2830-01	.2310-01	.3390-01	.9133	.1033-02	.1518-02	.2080	1.541	539.9
18	.00000	.24000	749.00	.2250-01	.1830-01	.2700-01	.9130	.8212-03	.1208-02	.1650	1.252	539.7
18	.00000	.25000	750.00	.8800-02	.7200-02	.1050-01	.9130	.3217-03	.4717-03	.6500-01	.5300	538.3
18	.00000	.30000	751.00	.2290-01	.1870-01	.2740-01	.9130	.8357-03	.1228-02	.1690	1.110	539.4
18	.00000	.35000	752.00	.3240-01	.2640-01	.3880-01	.9130	.1183-02	.1738-02	.2390	1.517	539.0
18	.00000	.40000	753.00	.3820-01	.3120-01	.4590-01	.9130	.1397-02	.2055-02	.2810	1.814	539.8
18	.00000	.50000	754.00	.3320-01	.2690-01	.4030-01	.9130	.1202-02	.1804-02	.2330	1.521	547.7
18	.00000	.60000	755.00	.3480-01	.2810-01	.4230-01	.9130	.1260-02	.1893-02	.2430	1.555	548.4
18	.00000	.70000	756.00	.3410-01	.2740-01	.4160-01	.9130	.1226-02	.1862-02	.2320	1.525	552.2
18	.00000	.80000	757.00	.3410-01	.2750-01	.4140-01	.9130	.1230-02	.1853-02	.2360	1.478	549.2
18	.00000	.90000	758.00	.9400-02	.7600-02	.1140-01	.9130	.3396-03	.5107-03	.6500-01	.4220	548.7
18	55.000	.22000	759.00	.3340-01	.2730-01	.3990-01	.9139	.1224-02	.1786-02	.2490	1.858	538.0
18	55.000	.25000	760.00	.1310-01	.1070-01	.1560-01	.9130	.4802-03	.7001-03	.9500-01	.7760	535.8
18	55.000	.27000	761.00	.1250-01	.1020-01	.1490-01	.9130	.4575-03	.6694-03	.9300-01	.6970	537.4
18	55.000	.30000	762.00	.2370-01	.1940-01	.2830-01	.9130	.8673-03	.1268-02	.1770	1.070	537.0
18	55.000	.32000	763.00	.2780-01	.2280-01	.3330-01	.9130	.1019-02	.1489-02	.2080	1.236	537.1
18	55.000	.34000	764.00	.2740-01	.2240-01	.3280-01	.9130	.1004-02	.1469-02	.2040	1.218	537.6
18	55.000	.38000	766.00	.3560-01	.2910-01	.4260-01	.9130	.1303-02	.1907-02	.2650	1.621	537.4
18	55.000	.40000	767.00	.3610-01	.2950-01	.4320-01	.9130	.1322-02	.1934-02	.2700	1.693	537.2
18	67.500	.23000	768.00	.2930-01	.2400-01	.3500-01	.9133	.1073-02	.1567-02	.2180	1.633	537.5
18	67.500	.25000	769.00	.1360-01	.1120-01	.1630-01	.9130	.5000-03	.7290-03	.1030	.8030	535.8
18	67.500	.27000	770.00	.1680-01	.1370-01	.2010-01	.9130	.6148-03	.8995-03	.1250	.9180	537.4
18	67.500	.29000	771.00	.1660-01	.1360-01	.1980-01	.9130	.6076-03	.8869-03	.1240	.7750	536.4
18	67.500	.30000	772.00	.2290-01	.1880-01	.2750-01	.9130	.8409-03	.1230-02	.1720	1.054	537.1
18	67.500	.31000	773.00	.2450-01	.2000-01	.2930-01	.9130	.8960-03	.1311-02	.1830	1.112	537.3
18	67.500	.32000	774.00	.2840-01	.2330-01	.3400-01	.9130	.1042-02	.1521-02	.2130	1.288	536.5
18	67.500	.32500	775.00	.2930-01	.2400-01	.3510-01	.9130	.1075-02	.1570-02	.2200	1.333	536.6
18	67.500	.33000	776.00	.3050-01	.2500-01	.3650-01	.9130	.1120-02	.1636-02	.2290	1.390	536.8
18	67.500	.33500	777.00	.3310-01	.2710-01	.3960-01	.9130	.1215-02	.1775-02	.2480	1.509	536.8
18	67.500	.34000	778.00	.3340-01	.2740-01	.4000-01	.9130	.1225-02	.1791-02	.2500	1.519	537.0
18	67.500	.34500	779.00	.3440-01	.2820-01	.4120-01	.9130	.1262-02	.1844-02	.2570	1.568	537.0
18	67.500	.35000	780.00	.3410-01	.2790-01	.4070-01	.9130	.1248-02	.1824-02	.2550	1.557	536.9
18	67.500	.35500	781.00	.3290-01	.2690-01	.3930-01	.9130	.1204-02	.1760-02	.2450	1.503	537.3
18	67.500	.36000	782.00	.3470-01	.2840-01	.4150-01	.9130	.1271-02	.1859-02	.2590	1.586	537.3
18	67.500	.36500	783.00	.3460-01	.2830-01	.4140-01	.9130	.1267-02	.1852-02	.2590	1.582	536.8
18	67.500	.37000	784.00	.3470-01	.2840-01	.4150-01	.9130	.1270-02	.1856-02	.2600	1.595	536.8
18	67.500	.37500	785.00	.3450-01	.2820-01	.4130-01	.9130	.1265-02	.1848-02	.2580	1.599	537.0
18	67.500	.38000	786.00	.3350-01	.2740-01	.4010-01	.9130	.1228-02	.1796-02	.2510	1.557	537.0
18	67.500	.39000	787.00	.3470-01	.2840-01	.4160-01	.9130	.1271-02	.1861-02	.2590	1.611	537.6
18	67.500	.40000	788.00	.3150-01	.2570-01	.3770-01	.9130	.1152-02	.1687-02	.2340	1.472	537.7
18	67.500	.50000	789.00	.3290-01	.2680-01	.3950-01	.9130	.1202-02	.1771-02	.2410	1.553	540.3
18	67.500	.60000	790.00	.3310-01	.2700-01	.3920-01	.9130	.1210-02	.1782-02	.2430	1.631	540.2
18	67.500	.70000	791.00	.3150-01	.2560-01	.3800-01	.9130	.1144-02	.1701-02	.2250	1.595	544.1

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F06)

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
18	67.500	.80000	792.00	.3280-01	.2670-01	.3950-01	.9130	.1194-02	.1767-02	.2370	1.495	542.4
18	67.500	.90000	793.00	.1850-01	.1500-01	.2230-01	.9130	.6719-03	.9966-03	.1330	.8590	543.2
18	78.000	.27000	794.00	.1750-01	.1430-01	.2100-01	.9130	.6417-03	.9389-03	.1310	.9360	537.4
18	78.000	.29000	795.00	.1420-01	.1170-01	.1700-01	.9130	.5220-03	.7608-03	.1070	.6650	535.7
19	78.000	.30000	796.00	.2400-01	.1960-01	.2880-01	.9130	.8766-03	.1290-02	.1760	1.070	538.5
19	78.000	.31000	797.00	.2590-01	.2110-01	.3110-01	.9130	.9464-03	.1393-02	.1900	1.156	538.4
19	78.000	.32000	798.00	.2680-01	.2190-01	.3220-01	.9130	.9797-03	.1441-02	.1970	1.193	538.4
19	78.000	.32500	799.00	.2960-01	.2420-01	.3560-01	.9130	.1082-02	.1593-02	.2170	1.317	538.6
19	78.000	.33000	800.00	.3090-01	.2520-01	.3720-01	.9130	.1130-02	.1663-02	.2260	1.375	538.6
19	78.000	.33500	801.00	.3360-01	.2740-01	.4040-01	.9130	.1228-02	.1810-02	.2460	1.491	539.0
19	78.000	.34000	802.00	.3130-01	.2550-01	.3750-01	.9130	.1142-02	.1680-02	.2290	1.390	538.5
19	78.000	.34500	803.00	.3330-01	.2710-01	.3990-01	.9130	.1214-02	.1788-02	.2430	1.481	538.7
19	78.000	.35000	804.00	.3460-01	.2820-01	.4160-01	.9130	.1263-02	.1860-02	.2530	1.541	538.7
19	78.000	.35500	805.00	.3730-01	.3050-01	.4480-01	.9130	.1363-02	.2007-02	.2730	1.662	538.7
19	78.000	.36000	806.00	.3740-01	.3050-01	.4490-01	.9130	.1365-02	.2008-02	.2740	1.675	538.2
19	78.000	.36500	807.00	.3760-01	.3070-01	.4520-01	.9130	.1372-02	.2022-02	.2750	1.681	538.9
19	78.000	.37000	808.00	.3560-01	.2900-01	.4270-01	.9130	.1298-02	.1912-02	.2600	1.594	538.9
19	78.000	.37500	809.00	.3640-01	.2970-01	.4380-01	.9130	.1329-02	.1960-02	.2660	1.630	539.2
19	78.000	.38000	810.00	.3610-01	.2940-01	.4340-01	.9130	.1316-02	.1941-02	.2630	1.624	539.2
19	78.000	.39000	811.00	.3370-01	.2750-01	.4050-01	.9130	.1229-02	.1812-02	.2460	1.521	539.1
19	78.000	.40000	812.00	.3400-01	.2770-01	.4090-01	.9130	.1240-02	.1829-02	.2480	1.532	539.3
39	90.000	.40000-01	985.00	.1675	.1350	.1631	.9556	.6043-02	.7303-02	1.153	7.484	551.1
39	90.000	.50000-01	986.00	.1597	.1288	.1581	.9521	.5766-02	.7079-02	1.106	7.137	550.2
39	90.000	.60000-01	987.00	.1335	.1070	.1344	.9486	.4792-02	.6015-02	.8980	5.885	554.6
39	90.000	.70000-01	988.00	.1358	.1089	.1390	.9453	.4875-02	.6224-02	.9120	6.107	554.8
39	90.000	.80000-01	989.00	.1631	.1298	.1699	.9422	.5811-72	.7607-02	1.056	7.430	560.3
39	90.000	.10000+00	990.00	.1928	.1454	.1967	.9363	.6509-02	.8805-02	1.180	7.645	560.7
39	90.000	.15000	991.00	.1229	.9810-01	.1415	.9240	.4393-02	.6334-02	.8080	5.900	558.0
19	90.000	.23000	813.00	.2900-01	.2360-01	.3470-01	.9133	.1057-02	.1554-02	.2120	1.546	538.8
19	90.000	.24000	814.00	.2440-01	.1990-01	.2940-01	.9130	.8924-03	.1314-02	.1790	1.451	538.8
19	90.000	.27000	815.00	.1810-01	.1480-01	.2170-01	.9130	.6607-03	.9717-03	.1330	.9480	538.1
19	90.000	.29000	817.00	.1920-01	.1560-01	.2300-01	.9130	.7001-03	.1029-02	.1410	.8790	538.0
19	90.000	.30000	818.00	.2500-01	.2040-01	.3010-01	.9130	.9146-03	.1346-02	.1840	1.127	538.3
19	90.000	.31000	819.00	.2640-01	.2150-01	.3170-01	.9130	.9641-03	.1418-02	.1940	1.180	538.1
19	90.000	.32000	820.00	.2700-01	.2210-01	.3250-01	.9130	.9878-03	.1453-02	.1980	1.205	538.2
19	90.000	.32500	821.00	.3210-01	.2620-01	.3850-01	.9130	.1171-02	.1722-02	.2350	1.424	538.2
19	90.000	.33000	822.00	.3000-01	.2450-01	.3600-01	.9130	.1097-02	.1612-02	.2210	1.340	537.9
19	90.000	.33500	823.00	.3130-01	.2560-01	.3760-01	.9130	.1144-02	.1682-02	.2300	1.402	537.9
19	90.000	.34000	824.00	.3920-01	.3110-01	.4590-01	.9130	.1392-02	.2055-02	.2770	1.677	539.9
19	90.000	.34500	825.00	.3430-01	.2800-01	.4120-01	.9130	.1255-02	.1845-02	.2520	1.530	538.2
19	90.000	.35000	826.00	.3400-01	.2770-01	.4080-01	.9130	.1241-02	.1825-02	.2500	1.515	538.0
19	90.000	.36000	828.00	.3470-01	.2830-01	.4160-01	.9130	.1266-02	.1864-02	.2540	1.537	538.5
19	90.000	.36500	829.00	.4600-01	.3750-01	.5520-01	.9130	.1679-02	.2470-02	.3370	2.047	538.3

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
19	90.000	.37000	830.00	.3460-01	.2820-01	.4150-01	.9130	.1264-02	.1859-02	.2540	1.544	538.4
19	90.000	.37500	831.00	.3640-01	.2970-01	.4370-01	.9130	.1331-02	.1958-02	.2670	1.637	538.2
19	90.000	.38000	832.00	.3520-01	.2870-01	.4230-01	.9130	.1286-02	.1894-02	.2580	1.577	538.7
19	90.000	.39000	833.00	.3470-01	.2830-01	.4160-01	.9130	.1265-02	.1863-02	.2540	1.570	538.6
19	90.000	.40000	834.00	.3490-01	.2840-01	.4190-01	.9130	.1272-02	.1875-02	.2550	1.580	539.0
19	90.000	.50000	835.00	.3290-01	.2670-01	.3970-01	.9130	.1197-02	.1776-02	.2360	1.496	541.9
19	90.000	.60000	836.00	.3180-01	.2590-01	.3830-01	.9130	.1158-02	.1712-02	.2300	1.537	540.5
19	90.000	.70000	837.00	.3070-01	.2490-01	.3710-01	.9130	.1113-02	.1661-02	.2170	1.528	544.3
19	90.000	.80000	838.00	.3060-01	.2490-01	.3690-01	.9130	.1114-02	.1651-02	.2200	1.371	541.6
19	90.000	.90000	839.00	.2070-01	.1680-01	.2490-01	.9130	.7503-03	.1116-02	.1470	.9430	542.9
19	112.50	.23000	840.00	.3110-01	.2530-01	.3730-01	.9133	.1134-02	.1668-02	.2270	1.839	538.7
19	112.50	.25000	841.00	.2000-01	.1630-01	.2400-01	.9130	.7311-03	.1073-02	.1470	1.149	537.4
19	112.50	.27000	842.00	.1340-01	.1090-01	.1600-01	.9130	.4883-03	.7169-03	.9800-01	.6920	537.4
19	112.50	.30000	843.00	.2670-01	.2180-01	.3200-01	.9130	.9750-03	.1434-02	.1960	1.171	538.1
19	112.50	.33000	844.00	.3320-01	.2710-01	.3990-01	.9130	.1211-02	.1784-02	.2420	1.467	538.9
19	112.50	.35000	845.00	.3590-01	.2920-01	.4300-01	.9130	.1308-02	.1927-02	.2620	1.613	538.8
19	112.50	.37000	846.00	.3590-01	.2930-01	.4320-01	.9130	.1311-02	.1932-02	.2620	1.624	538.9
19	112.50	.40000	847.00	.3660-01	.2980-01	.4390-01	.9130	.1335-02	.1965-02	.2680	1.676	538.5
19	112.50	.45000	848.00	.3590-01	.2930-01	.4320-01	.9130	.1312-02	.1932-02	.2630	1.659	538.7
19	112.50	.50000	849.00	.3540-01	.2880-01	.4260-01	.9130	.1288-02	.1907-02	.2550	1.646	540.9
19	112.50	.55000	850.00	.3120-01	.2540-01	.3750-01	.9130	.1136-02	.1680-02	.2260	1.513	540.4
19	112.50	.60000	851.00	.3400-01	.2770-01	.4090-01	.9130	.1241-02	.1833-02	.2470	1.663	539.8
19	112.50	.65000	852.00	.3490-01	.2840-01	.4200-01	.9130	.1272-02	.1881-02	.2530	1.725	540.5
19	112.50	.70000	853.00	.3840-01	.3120-01	.4650-01	.9130	.1396-02	.2079-02	.2730	1.919	543.5
19	112.50	.75000	854.00	.3410-01	.2760-01	.4110-01	.9130	.1238-02	.1841-02	.2430	1.577	543.0
19	112.50	.80000	855.00	.3160-01	.2570-01	.3820-01	.9130	.1150-02	.1708-02	.2260	1.475	542.3
19	112.50	.90000	856.00	.1870-01	.1520-01	.2260-01	.9130	.6789-03	.1011-02	.1330	.8630	543.4
19	125.40	.84000	857.00	.2650-01	.2160-01	.3200-01	.9130	.9654-03	.1431-02	.1910	1.183	541.3
19	125.40	.85000	858.00	.2810-01	.2280-01	.3390-01	.9130	.1022-02	.1516-02	.2010	1.255	541.9
19	125.40	.86000	859.00	.3000-01	.2440-01	.3620-01	.9130	.1092-02	.1622-02	.2150	1.350	542.3
19	125.40	.87000	860.00	.2840-01	.2310-01	.3430-01	.9130	.1033-02	.1536-02	.2030	1.277	542.8
19	125.40	.88000	861.00	.2970-01	.2400-01	.3580-01	.9130	.1076-02	.1604-02	.2.00	1.324	543.6
19	125.40	.89000	862.00	.2650-01	.2150-01	.3200-01	.9130	.9613-03	.1434-02	.1870	1.187	544.1
19	125.40	.90000	863.00	.2530-01	.2050-01	.3060-01	.9130	.9174-03	.1369-02	.1790	1.138	544.2
19	125.40	.91000	864.00	.1180-01	.9600-02	.1430-01	.9130	.4301-03	.6404-03	.8420-01	.6140	543.2
19	125.40	.92600	865.00	.1950-01	.1570-01	.2360-01	.9130	.7047-03	.1057-02	.1360	.9860	546.0
19	129.30	.60000	866.00	.3130-01	.2540-01	.3760-01	.9130	.1139-02	.1684-02	.2260	1.425	540.5
19	129.30	.81000	867.00	.2810-01	.2280-01	.3380-01	.9130	.1022-02	.1514-02	.2020	1.268	541.2
19	129.30	.82000	868.00	.2720-01	.2210-01	.3270-01	.9130	.9888-03	.1464-02	.1960	1.228	541.0
19	129.30	.83000	869.00	.2670-01	.2170-01	.3210-01	.9130	.9710-03	.1438-02	.1920	1.208	541.2
19	135.00	.40000-01	870.00	.1707	.1368	.1661	.9556	.6122-02	.7435-02	1.138	7.292	553.2
19	135.00	.50000-01	871.00	.1668	.1341	.1652	.9521	.6004-02	.7393-02	1.132	7.225	550.5
19	135.00	.60000-01	872.00	.1560	.1246	.1571	.9487	.5578-02	.7030-02	1.025	6.776	555.4

DATE 03 JUN 76 • AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F08)

IHN1(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
19	135.00	.70000-01	873.00	.2905	.2232	.2988	.9454	.9992-02	.1338-01	1.595	10.68	579.4
19	135.00	.10000+00	875.00	.2402	.1908	.2585	.9363	.8538-02	.1157-01	1.534	10.00	559.5
19	135.00	.15000	876.00	.1252	.1002	.1438	.9240	.4486-02	.6434-02	.8320	6.069	553.6
19	135.00	.20000	877.00	.5790-01	.4710-01	.6870-01	.9158	.2108-02	.3073-02	.4180	2.826	540.8
19	135.00	.35000	878.00	.3980-01	.3250-01	.4780-01	.9130	.1454-02	.2140-02	.2910	1.817	538.7
19	135.00	.40000	879.00	.3630-01	.2960-01	.4370-01	.9130	.1326-02	.1955-02	.2650	1.688	539.1
19	135.00	.50000	880.00	.3170-01	.2570-01	.3810-01	.9130	.1153-02	.1707-02	.2280	1.571	541.1
19	135.00	.55000	881.00	.2860-01	.2330-01	.3440-01	.9130	.1041-02	.1539-02	.2070	1.381	540.5
19	135.00	.60000	882.00	.3300-01	.2680-01	.3970-01	.9130	.1201-02	.1776-02	.2390	1.609	540.4
19	135.00	.65000	883.00	.3200-01	.2600-01	.3850-01	.9130	.1164-02	.1723-02	.2310	1.579	540.9
19	135.00	.70000	884.00	.3180-01	.2580-01	.3850-01	.9130	.1157-02	.1721-02	.2270	1.615	543.0
19	135.00	.75000	885.00	.2920-01	.2370-01	.3530-01	.9130	.1062-02	.1578-02	.2090	1.319	542.5
19	135.00	.84000	887.00	.2930-01	.2380-01	.3540-01	.9130	.1067-02	.1582-02	.2110	1.329	541.5
19	135.00	.85000	888.00	.2900-01	.2360-01	.3500-01	.9130	.1057-02	.1565-02	.2100	1.334	543.2
39	135.00	.86000	889.00	.3220-01	.2620-01	.3880-01	.9130	.1172-02	.1738-02	.2330	1.472	543.6
39	135.00	.87000	890.00	.2960-01	.2400-01	.3560-01	.9130	.1075-02	.1596-02	.2150	1.354	544.1
39	135.00	.88000	891.00	.3160-01	.2560-01	.3810-01	.9130	.1146-02	.1706-02	.2260	1.443	545.2
39	135.00	.89000	892.00	.2960-01	.2400-01	.3580-01	.9130	.1073-02	.1601-02	.2100	1.369	546.0
39	135.00	.90000	893.00	.2550-01	.2060-01	.3080-01	.9130	.9239-03	.1379-02	.1810	1.190	546.2
39	135.00	.91000	894.00	.1070-01	.8700-02	.1290-01	.9130	.3883-03	.5783-03	.7600-01	.5570	545.4
39	135.00	.92600	895.00	.2010-01	.1630-01	.2440-01	.9130	.7287-03	.1092-02	.1410	1.027	548.0
39	135.00	.95000	896.00	.2560-01	.2070-01	.3110-01	.9130	.9288-03	.1391-02	.1800	1.302	547.8
39	142.30	.42000	897.00	.3450-01	.2810-01	.4150-01	.9130	.1258-02	.1858-02	.2520	1.621	542.0
39	142.30	.43500	898.00	.3750-01	.3060-01	.4510-01	.9130	.1369-02	.2020-02	.2740	1.716	541.8
39	142.30	.45000	899.00	.3370-01	.2750-01	.4060-01	.9130	.1230-02	.1818-02	.2460	1.611	542.3
39	142.30	.50000	900.00	.3230-01	.2620-01	.3990-01	.9130	.1174-02	.1744-02	.2320	1.546	544.4
39	142.30	.60000	901.00	.3790-01	.3080-01	.4560-01	.9130	.1379-02	.2043-02	.2740	1.823	543.2
39	142.30	.70000	902.00	.3160-01	.2560-01	.3820-01	.9130	.1148-02	.1709-02	.2260	1.542	545.3
39	142.30	.80000	903.00	.3320-01	.2700-01	.4000-01	.9130	.1208-02	.1791-02	.2400	1.526	543.6
39	142.30	.87000	904.00	.3850-01	.3130-01	.4660-01	.9130	.1403-02	.2087-02	.2760	1.748	545.0
39	142.30	.92000	905.00	.4020-01	.3270-01	.4840-01	.9130	.1464-02	.2165-02	.2920	1.847	542.5
39	154.98	.42000	906.00	.3590-01	.2930-01	.4320-01	.9130	.1310-02	.1935-02	.2620	1.700	542.3
39	154.98	.43500	907.00	.3790-01	.3080-01	.4560-01	.9130	.1381-02	.2043-02	.2750	1.797	542.9
39	154.98	.45000	908.00	.5780-01	.4690-01	.6980-01	.9130	.2100-02	.3125-02	.4130	2.961	545.1
39	154.98	.50000	909.00	.2800-01	.2270-01	.3390-01	.9130	.1016-02	.1517-02	.1990	1.445	546.4
39	154.98	.93500	913.00	.1650-01	.1330-01	.1990-01	.9130	.5959-03	.8926-03	.1160	.8330	547.8
39	154.98	.9+500	914.00	.2421	.1882	.2488	.9453	.8425-02	.1114-01	1.403	9.615	575.4
39	157.50	.70000-01	918.00	.3225	.2507	.3376	.9422	.1122-01	.1511-01	1.870	12.58	575.3
39	157.50	.80000-01	919.00	.2296	.1817	.2475	.9362	.8137-02	.1108-01	1.448	9.590	564.0
39	157.50	.10000+00	920.00	.5560-01	.4510-01	.6620-01	.9158	.2020-02	.2961-02	.3970	2.648	545.3
39	157.50	.20000	922.00	.3610-01	.2940-01	.4350-01	.9130	.1317-02	.1946-02	.2630	1.720	542.2
39	157.50	.42000	923.00	.3470-01	.2830-01	.4180-01	.9130	.1265-02	.1870-02	.2530	1.658	542.2
39	157.50	.43500	924.00	.3430-01	.2790-01	.4120-01	.9130	.1249-02	.1846-02	.2490	1.649	542.4
39	157.50	.45000	925.00									

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F08)

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
39	157.50	.85000	926.00	.2950-01	.2400-01	.3560-01	.9130	.1073-02	.1594-02	.2120	1.372	544.5
39	157.50	.86000	927.00	.2420-01	.1960-01	.2910-01	.9130	.8791-03	.1303-02	.1740	1.133	543.6
39	157.50	.87000	928.00	.2720-01	.2210-01	.3280-01	.9130	.9873-03	.1469-02	.1940	1.265	545.1
39	157.50	.88000	929.00	.2900-01	.2350-01	.3510-01	.9130	.1054-02	.1571-02	.2070	1.352	545.9
39	157.50	.89000	930.00	.2470-01	.2000-01	.2990-01	.9130	.8960-03	.1339-02	.1750	1.150	546.9
39	157.50	.90000	931.00	.1930-01	.1560-01	.2340-01	.9130	.6999-03	.1048-02	.1360	.9180	547.4
39	157.50	.91000	932.00	.1470-01	.1190-01	.1780-01	.9130	.5341-03	.7965-03	.1050	.7660	546.0
39	157.50	.92600	933.00	.2080-01	.1690-01	.2520-01	.9130	.7550-03	.1129-02	.1470	1.073	547.1
39	163.12	.41500	934.00	.3390-01	.2770-01	.4080-01	.9130	.1238-02	.1827-02	.2480	1.614	541.6
39	163.12	.42000	935.00	.3140-01	.2560-01	.3770-01	.9130	.1146-02	.1689-02	.2300	1.507	541.4
39	163.12	.43000	937.00	.3520-01	.2860-01	.4230-01	.9130	.1282-02	.1894-02	.2560	1.685	542.2
39	163.12	.44000	938.00	.3370-01	.2740-01	.4060-01	.9130	.1228-02	.1816-02	.2450	1.607	542.4
39	163.12	.44500	939.00	.3260-01	.2650-01	.3930-01	.9130	.1189-02	.1757-02	.2370	1.578	542.5
39	163.12	.45000	940.00	.3180-01	.2590-01	.3830-01	.9130	.1159-02	.1712-02	.2310	1.540	542.3
39	163.12	.50000	941.00	.3280-01	.2660-01	.3960-01	.9130	.1190-02	.1772-02	.2340	1.589	545.3
39	163.12	.60000	942.00	.3420-01	.2780-01	.4120-01	.9130	.1244-02	.1842-02	.2470	1.596	543.3
39	163.12	.70000	943.00	.3200-01	.2590-01	.3860-01	.9130	.1162-02	.1730-02	.2280	1.568	545.5
39	163.12	.80000	944.00	.3050-01	.2480-01	.3680-01	.9130	.1109-02	.1647-02	.2190	1.432	544.3
39	168.00	.35000	945.00	.3540-01	.2890-01	.4260-01	.9130	.1292-02	.1905-02	.2590	1.648	541.3
39	168.00	.36000	946.00	.3510-01	.2860-01	.4220-01	.9130	.1281-02	.1890-02	.2570	1.636	541.5
39	168.00	.37000	947.00	.3560-01	.2900-01	.4270-01	.9130	.1298-02	.1913-02	.2610	1.665	541.2
39	168.00	.37500	948.00	.3590-01	.2930-01	.4320-01	.9130	.1311-02	.1933-02	.2630	1.680	541.5
39	168.00	.38500	950.00	.3020-01	.2460-01	.3620-01	.9130	.1103-02	.1622-02	.2220	1.438	540.4
39	168.00	.39000	951.00	.3480-01	.2840-01	.4190-01	.9130	.1272-02	.1874-02	.2550	1.661	541.1
39	168.00	.39500	952.00	.3560-01	.2900-01	.4270-01	.9130	.1297-02	.1914-02	.2600	1.666	541.6
39	168.00	.40000	953.00	.3650-01	.2970-01	.4390-01	.9130	.1332-02	.1964-02	.2670	1.741	541.5
39	168.00	.40500	954.00	.3400-01	.2770-01	.4090-01	.9130	.1241-02	.1831-02	.2490	1.626	541.6
39	168.00	.41000	955.00	.3970-01	.3230-01	.4770-01	.9130	.1447-02	.2137-02	.2900	1.894	541.9
39	168.00	.41500	956.00	.3760-01	.3060-01	.4520-01	.9130	.1371-02	.2025-02	.2740	1.797	542.1
39	168.00	.42000	957.00	.3310-01	.2700-01	.3980-01	.9130	.1208-02	.1781-02	.2420	1.593	541.5
39	168.00	.42500	958.00	.3270-01	.2660-01	.3930-01	.9130	.1192-02	.1758-02	.2390	1.570	541.7
39	168.00	.43000	959.00	.3270-01	.2660-01	.3940-01	.9130	.1193-02	.1762-02	.2380	1.563	542.2
39	168.00	.44000	960.00	.3640-01	.2960-01	.4380-01	.9130	.1327-02	.1962-02	.2650	1.741	542.5
39	168.00	.44500	961.00	.3620-01	.2940-01	.4360-01	.9130	.1317-02	.1950-02	.2620	1.720	543.2
39	168.00	.45000	962.00	.3480-01	.2830-01	.4190-01	.9130	.1268-02	.1876-02	.2520	1.670	542.8
39	168.00	.45500	963.00	.3410-01	.2770-01	.4100-01	.9130	.1242-02	.1838-02	.2470	1.637	542.8
39	168.00	.46000	964.00	.3890-01	.3170-01	.4690-01	.9130	.1417-02	.2101-02	.2810	1.869	543.7
39	169.00	.47000	965.00	.3500-01	.2840-01	.4220-01	.9130	.1273-02	.1888-02	.2520	1.681	543.9
39	168.00	.48000	966.00	.3700-01	.3010-01	.4470-01	.9130	.1347-02	.2000-02	.2660	1.792	544.3
39	168.00	.49000	967.00	.3510-01	.2860-01	.4220-01	.9130	.1278-02	.1889-02	.2550	1.719	542.4
39	168.00	.85000	968.00	.3080-01	.2500-01	.3720-01	.9130	.1120-02	.1666-02	.2210	1.433	544.9
39	168.00	.86000	969.00	.3000-01	.2440-01	.3630-01	.9130	.1091-02	.1624-02	.2150	1.397	545.3
39	168.00	.87000	970.00	.2950-01	.2400-01	.3570-01	.9130	.1072-02	1598-02	.2100	1.373	545.8

DATE 03 JUN 76 AEDC \41A-A4A (1H-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F08)

1H41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TH DEG. R
39	168.00	.88000	971.00	.2910-01	.2360-01	.3520-01	.9130	.1057-02	.1578-02	.2060	1.351	546.5
39	168.00	.89000	972.00	.3150-01	.2550-01	.3820-01	.9130	.1143-02	.1710-02	.2230	1.478	547.2
39	168.00	.92600	975.00	.1770-01	.1430-01	.2140-01	.9130	.6411-03	.9594-03	.1250	.9040	547.4
39	168.00	.95000	976.00	.2260-01	.1830-01	.2740-01	.9130	.8195-03	.1227-02	.1590	1.146	547.7
17	180.00	.40000-01	600.00	.1912	.1539	.1861	.9556	.6891-02	.8335-02	1.318	8.441	554.7
17	180.00	.50000-01	601.00	.1637	.1321	.1621	.9521	.5917-02	.7259-02	1.145	7.361	552.5
17	180.00	.60000-01	602.00	.1674	.1341	.1686	.9486	.6004-02	.7548-02	1.125	7.449	558.6
17	180.00	.70000-01	603.00	.3065	.2339	.3156	.9453	.1048-01	.1413-01	1.651	11.04	588.3
17	180.00	.80000-01	604.00	.3901	.3012	.4091	.9422	.1349-01	.1832-01	2.205	14.09	582.4
17	180.00	.10000+00	605.00	.2121	.1680	.2286	.9363	.7522-02	.1024-01	1.349	9.589	566.6
17	180.00	.15000	606.00	.1143	.9160-01	.1312	.9240	.4101-02	.5874-02	.7700	5.570	558.1
17	180.00	.20000	607.00	.5320-01	.4330-01	.6300-01	.9158	.1938-02	.2822-02	.3630	2.536	545.5
17	180.00	.21000	608.00	.4300-01	.3510-01	.5120-01	.9147	.1571-02	.2292-02	.3180	2.200	543.6
17	180.00	.22000	609.00	.3450-01	.2810-01	.4120-01	.9139	.1259-02	.1844-02	.2550	1.904	543.2
17	180.00	.30000	610.00	.2070-01	.1690-01	.2480-01	.9130	.7581-03	.1111-02	.1550	1.062	541.8
17	180.00	.35000	611.00	.3080-01	.2520-01	.3690-01	.9130	.1129-02	.1653-02	.2310	1.546	541.1
17	180.00	.36000	612.00	.3120-01	.2550-01	.3740-01	.9130	.1143-02	.1673-02	.2340	1.578	541.0
17	180.00	.37000	613.00	.3360-01	.2750-01	.4020-01	.9130	.1229-02	.1800-02	.2520	1.698	541.1
17	180.00	.37500	614.00	.3230-01	.2640-01	.3860-01	.9130	.1182-02	.1730-02	.2420	1.631	541.2
17	180.00	.38000	615.00	.3210-01	.2620-01	.3840-01	.9130	.1175-02	.1721-02	.2400	1.619	541.5
17	180.00	.38500	616.00	.3410-01	.2790-01	.4080-01	.9130	.1248-02	.1828-02	.2550	1.721	541.3
17	180.00	.39000	617.00	.3340-01	.2730-01	.4000-01	.9130	.1222-02	789-02	.2500	1.683	541.1
17	180.00	.39500	618.00	.3250-01	.2660-01	.3890-01	.9130	.1190-02	.1742-02	.2440	1.649	541.0
17	180.00	.40000	619.00	.3250-01	.2660-01	.3890-01	.9130	.1190-02	.1742-02	.2440	1.640	540.9
17	180.00	.40500	620.00	.3390-01	.2770-01	.4060-01	.9130	.1241-02	.1817-02	.2540	1.712	541.3
17	180.00	.41000	621.00	.3610-01	.2950-01	.4330-01	.9130	.1323-02	.1938-02	.2710	1.823	541.5
17	180.00	.41500	622.00	.3600-01	.2940-01	.4310-01	.9130	.1317-02	.1931-02	.2690	1.807	541.7
17	180.00	.42000	623.00	.3560-01	.2900-01	.4260-01	.9130	.1300-02	.1910-02	.2650	1.776	542.5
17	180.00	.42500	624.00	.3380-01	.2760-01	.4050-01	.9130	.1236-02	.1814-02	.2520	1.694	542.4
17	180.00	.43000	625.00	.3420-01	.2790-01	.4100-01	.9130	.1251-02	.1837-02	.2540	1.714	542.5
17	180.00	.44000	626.00	.3250-01	.2650-01	.3890-01	.9130	.1187-02	.1743-02	.2420	1.644	542.3
17	180.00	.44500	627.00	.3070-01	.2510-01	.3680-01	.9130	.1122-02	.1648-02	.2280	1.577	542.4
17	180.00	.45500	629.00	.3150-01	.2570-01	.3780-01	.9130	.1152-02	.1691-02	.2350	1.581	542.3
17	180.00	.46000	630.00	.3230-01	.2640-01	.3880-01	.9130	.1182-02	.1738-02	.2400	1.617	542.9
17	180.00	.47000	631.00	.3090-01	.2520-01	.3720-01	.9130	.1130-02	.1664-02	.2290	1.564	543.5
17	180.00	.49000	633.00	.2870-01	.2340-01	.3440-01	.9130	.1047-02	.1542-02	.2120	1.486	543.5
17	180.00	.50000	634.00	.2660-01	.2160-01	.3190-01	.9130	.9692-03	.1429-02	.1960	1.300	544.2
17	180.00	.55000	635.00	.3380-01	.2760-01	.4060-01	.9130	.1234-02	.1816-02	.2500	1.614	543.5
17	180.00	.60000	636.00	.3160-01	.2570-01	.3790-01	.9130	.1152-02	.1697-02	.2330	1.508	543.9
17	180.00	.65000	637.00	.3250-01	.2640-01	.3920-01	.9130	.1184-02	.1754-02	.2360	1.618	546.3
17	180.00	.70000	638.00	.3020-01	.2450-01	.3640-01	.9130	.1097-02	.1628-02	.2190	1.410	546.8
17	180.00	.75000	639.00	.2780-01	.2270-01	.3350-01	.9130	.1015-02	.1500-02	.2040	1.278	545.2
17	180.00	.80000	640.00	.2900-01	.2360-01	.3500-01	.9130	.1058-02	.1566-02	.2120	1.340	545.8
17	180.00	.85000	641.00									

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
17	180.00	.86000	642.00	.2930-01	.2380-01	.3530-01	.9130	.1066-02	.1580-02	.2120	1.361	546.8
17	180.00	.87000	643.00	.2150-01	.1750-01	.2590-01	.9130	.7821-03	.1162-02	.1550	1.002	547.3
17	180.00	.88000	644.00	.1930-01	.1570-01	.2330-01	.9130	.7013-03	.1044-02	.1390	.9020	548.1
17	180.00	.89000	645.00	.2950-01	.2400-01	.3560-01	.9130	.1073-02	.1596-02	.2120	1.397	548.0
17	180.00	.90000	646.00	.2060-01	.1670-01	.2480-01	.9130	.7493-03	.1112-02	.1490	1.001	547.1
17	180.00	.92600	648.00	.1370-01	.1110-01	.1650-01	.9130	.4969-03	.7383-03	.9900-01	.7190	547.5
17	180.00	.95000	649.00	.2250-01	.1830-01	.2720-01	.9130	.8187-03	.1218-02	.1620	1.170	548.0
17	191.25	.35000	650.00	.3390-01	.2770-01	.4060-01	.9130	.1240-02	.1817-02	.2530	1.708	541.6
17	191.25	.36000	651.00	.3480-01	.2840-01	.4170-01	.9130	.1273-02	.1867-02	.2600	1.756	541.9
17	191.25	.37000	652.00	.3360-01	.2750-01	.4030-01	.9130	.1231-02	.1804-02	.2510	1.692	541.8
17	191.25	.37500	653.00	.3360-01	.2750-01	.4030-01	.9130	.1230-02	.1804-02	.2510	1.696	541.9
17	191.25	.38000	654.00	.3390-01	.2770-01	.4060-01	.9130	.1240-02	.1818-02	.2530	1.712	541.7
17	191.25	.38500	655.00	.3290-01	.2690-01	.3940-01	.9130	.1204-02	.1764-02	.2460	1.660	541.8
17	191.25	.39000	656.00	.3260-01	.2670-01	.3910-01	.9130	.1194-02	.1750-02	.2440	1.648	541.7
17	191.25	.39500	657.00	.3260-01	.2660-01	.3900-01	.9130	.1192-02	.1747-02	.2440	1.647	541.6
17	191.25	.40000	658.00	.3250-01	.2660-01	.3900-01	.9130	.1190-02	.1745-02	.2430	1.648	541.7
17	191.25	.40500	659.00	.3450-01	.2820-01	.4130-01	.9130	.1263-02	.1850-02	.2580	1.750	541.5
17	191.25	.41000	660.00	.3420-01	.2790-01	.4100-01	.9130	.1251-02	.1834-02	.2550	1.726	541.8
17	191.25	.41500	661.00	.3350-01	.2740-01	.4020-01	.9130	.1227-02	.1800-02	.2500	1.695	542.0
17	191.25	.42000	662.00	.3570-01	.2920-01	.4280-01	.9130	.1306-02	.1917-02	.2660	1.796	542.4
17	191.25	.42500	663.00	.3420-01	.2790-01	.4100-01	.9130	.1250-02	.1835-02	.2550	1.726	542.3
17	191.25	.43000	664.00	.3450-01	.2820-01	.4140-01	.9130	.1263-02	.1854-02	.2570	1.757	542.5
17	191.25	.44000	665.00	.3480-01	.2850-01	.4180-01	.9130	.1274-02	.1872-02	.2590	1.760	542.7
17	191.25	.45000	666.00	.3470-01	.2830-01	.4170-01	.9130	.1269-02	.1866-02	.2570	1.748	543.2
17	191.25	.45500	667.00	.3340-01	.2730-01	.4010-01	.9130	.1222-02	.1797-02	.2480	1.686	543.0
17	191.25	.46000	668.00	.3390-01	.2770-01	.4070-01	.9130	.1240-02	.1824-02	.2520	1.715	543.1
17	191.25	.47000	669.00	.3450-01	.2820-01	.4140-01	.9130	.1262-02	.1856-02	.2560	1.749	543.2
17	191.25	.48000	670.00	.3620-01	.2950-01	.4350-01	.9130	.1323-02	.1950-02	.2670	1.824	544.2
17	191.25	.49000	671.00	.3370-01	.2750-01	.4060-01	.9130	.1231-02	.1817-02	.2470	1.685	544.9
17	191.25	.50000	672.00	.3140-01	.2560-01	.3770-01	.9130	.1145-02	.1689-02	.2300	1.604	544.6
17	191.25	.60000	673.00	.3350-01	.2730-01	.4030-01	.9130	.1224-02	.1805-02	.2470	1.582	544.5
17	191.25	.70000	674.00	.3220-01	.2620-01	.3890-01	.9130	.1172-02	.1740-02	.2330	1.584	547.2
17	191.25	.85000	676.00	.2910-01	.2370-01	.3500-01	.9130	.1059-02	.1567-02	.2120	1.343	545.5
17	191.25	.86000	677.00	.2860-01	.2330-01	.3450-01	.9130	.1043-02	.1544-02	.2080	1.333	546.1
17	191.25	.87000	678.00	.3050-01	.2480-01	.3670-01	.9130	.1109-02	.1644-02	.2210	1.425	546.6
17	191.25	.88000	679.00	.2980-01	.2420-01	.3590-01	.9130	.1084-02	.1610-02	.2150	1.404	547.3
17	191.25	.89000	680.00	.2880-01	.2340-01	.3480-01	.9130	.1047-02	.1556-02	.2070	1.372	547.8
17	191.25	.90000	681.00	.2200-01	.1790-01	.2660-01	.9130	.7996-03	.1189-02	.1580	1.067	547.8
17	191.25	.91000	682.00	.8100-02	.6600-02	.9800-02	.9130	.2964-03	.4392-03	.5900-01	.4320	546.2
17	191.25	.92600	633.00	.1850-01	.1500-01	.2230-01	.9130	.6713-03	.9997-03	.1330	.9700	548.4
17	191.25	.95000	684.00	.2150-01	.1750-01	.2600-01	.9130	.7815-03	.1163-02	.1550	1.117	548.0
17	197.00	.33000	685.00	.2990-01	.2440-01	.3580-01	.9130	.1093-02	.1602-02	.2240	1.507	541.4
17	197.00	.34000	686.00	.3190-01	.2610-01	.3820-01	.9130	.1169-02	.1712-02	.2390	1.611	541.4

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F06)

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
17	197.00	.35000	687.00	.3160-01	.2580-01	.3780-01	.9130	.1157-02	.1695-02	.2360	1.594	541.5
17	197.00	.36000	688.00	.3440-01	.2810-01	.4120-01	.9130	.1258-02	.1845-02	.2570	1.730	541.6
17	197.00	.37000	689.00	.3590-01	.2940-01	.4310-01	.9130	.1315-02	.1928-02	.2680	1.808	541.8
18	197.00	.37500	690.00	.3320-01	.2710-01	.3980-01	.9130	.1215-02	.1781-02	.2480	1.676	541.8
18	197.00	.50000	691.00	.3280-01	.2670-01	.3940-01	.9130	.1195-02	.1763-02	.2410	1.620	544.5
18	197.00	.60000	692.00	.3240-01	.2640-01	.3890-01	.9130	.1183-02	.1742-02	.2390	1.545	543.7
18	197.00	.70000	693.00	.3000-01	.2440-01	.3610-01	.9130	.1092-02	.1616-02	.2190	1.484	545.8
19	197.00	.80000	694.00	.2790-01	.2270-01	.3350-01	.9130	.1017-02	.1502-02	.2050	1.289	544.6
19	197.00	.87000	695.00	.4260-01	.3440-01	.5160-01	.9130	.1539-02	.2312-02	.2960	1.685	546.4
39	197.00	.92600	696.00	.3500-01	.2830-01	.4250-01	.9130	.1266-02	.1901-02	.2440	1.785	546.1
39	197.00	.50000-01	699.00	.1679	.1359	.1663	.9521	.6085-02	.7446-02	1.182	7.514	546.8
18	209.80	.70000-01	700.00	.2578	.2030	.2644	.9454	.9089-02	.1184-01	1.584	10.60	566.9
18	209.80	.10000+00	701.00	.2556	.2029	.2751	.9363	.9087-02	.1232-01	1.635	10.35	561.1
18	209.80	.15000	702.00	.1111	.8930-01	.1273	.9240	.4000-02	.5698-02	.7560	5.392	552.2
18	209.80	.20000	703.00	.5210-01	.4250-01	.6170-01	.9158	.1901-02	.2761-02	.3810	2.545	540.8
18	209.80	.30000	704.00	.2370-01	.1940-01	.2840-01	.9130	.8677-03	.1273-02	.1760	1.250	536.6
18	209.80	.35000	705.00	.3270-01	.2670-01	.3920-01	.9130	.1198-02	.1757-02	.2420	1.666	538.7
18	209.80	.37500	706.00	.3150-01	.2570-01	.3770-01	.9130	.1152-02	.1690-02	.2330	1.610	538.4
18	209.80	.50000	707.00	.3170-01	.2580-01	.3820-01	.9130	.1156-02	.1709-02	.2300	1.581	541.8
18	209.80	.60000	708.00	.3400-01	.2770-01	.4080-01	.9130	.1242-02	.1828-02	.2500	1.598	540.0
18	209.80	.70000	709.00	.3140-01	.2550-01	.3780-01	.9130	.1144-02	.1694-02	.2270	1.449	542.7
18	209.80	.80000	710.00	.3090-01	.2520-01	.3710-01	.9130	.1127-02	.1661-02	.2260	1.412	540.7
18	209.80	.87000	711.00	.3140-01	.2550-01	.3780-01	.9130	.1142-02	.1691-02	.2270	1.437	542.5
18	209.80	.92600	712.00	.1450-01	.1180-01	.1750-01	.9130	.5272-03	.7833-03	.1040	.7570	543.9
18	217.70	.50000-01	715.00	.1590	.1287	.1575	.9521	.5763-02	.7052-02	1.120	7.308	546.8
18	217.70	.70000-01	716.00	.1975	.1572	.2023	.9454	.7039-02	.9057-02	1.279	8.675	559.4
18	217.70	.10000+00	717.00	.2322	.1846	.2499	.9363	.8267-02	.1119-01	1.494	9.626	560.4
18	217.70	.15000	718.00	.1168	.9380-01	.1339	.9240	.4198-02	.5996-02	.7880	5.751	553.3
18	217.70	.20000	719.00	.5660-01	.4620-01	.6700-01	9158	.2067-02	.2999-02	.4150	2.809	540.3
18	217.70	.30000	720.00	.2480-01	.2030-01	.2970-01	.9130	.9075-03	.1332-02	.1840	1.319	538.8
18	217.70	.35000	721.00	.3290-01	.2690-01	.3950-01	.9130	.1204-02	.1767-02	.2440	1.695	538.8
18	217.70	.37500	722.00	.3470-01	.2830-01	.4160-01	.9130	.1269-02	.1864-02	.2560	1.783	539.1
18	217.70	.50000	723.00	.3290-01	.2680-01	.3960-01	.9130	.1200-02	.1772-02	.2400	1.660	541.4
18	217.70	.60000	724.00	.2920-01	.2380-01	.3510-01	.9130	.1067-02	.1571-02	.2140	1.376	540.1
18	217.70	.70000	725.00	.3100-01	.2520-01	.3730-01	.9130	.1129-02	.1670-02	.2250	1.432	542.1
18	217.70	.87000	727.00	.3180-01	.2590-01	.3830-01	.9130	.1159-02	.1713-02	.2310	1.481	541.8
18	217.70	.92600	728.00	.1860-01	.1510-01	.2240-01	.9130	.6761-03	.1004-02	.1340	.9730	543.5

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIP)

(RV7F07)

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = 5.000 BETA = .0000 GRIT = 3.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
40	5.500	4.979	5.000	.0000	.0000	178.0	.1910	742.0	105.2	4.051	2764.	.1526-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
40	.8470-07	.4478-01	.1363-01

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT D.G. R /SEC	TW DEG. R
40	.00000	.12000-01	977.00	.6152	.4547	.5328	.9719	.2036-01	.2386-01	2.895	17.87	599.5
40	.00000	.15100-01	978.00	.5048	.3885	.4506	.9701	.1740-01	.2018-01	2.799	18.84	580.8
40	.00000	.16000-01	979.00	.4311	.3349	.3887	.9690	.1500-01	.1741-01	2.491	16.96	575.6
40	.00000	.24000-01	980.00	.3539	.2780	.3242	.9668	.1245-01	.1452-01	2.153	14.27	568.7
40	.00000	.33000-01	981.00	.3134	.2487	.2912	.9646	.1113-01	.1304-01	1.999	12.72	562.1
40	90.000	.40000-01	985.00	.1605	.1302	.1566	.9553	.5829-02	.7012-02	1.144	7.450	545.3
40	90.000	.50000-01	986.00	.1558	.1264	.1545	.9518	.5661-02	.6917-02	1.114	7.210	544.9
40	90.000	.60000-01	987.00	.1396	.1126	.1407	.9484	.5043-02	.6300-02	.9670	6.357	549.9
40	90.000	.70000-01	988.00	.1921	.1536	.1970	.9451	.6876-02	.8820-02	1.270	8.489	557.0
40	90.000	.80000-01	989.00	.3199	.2474	.3356	.9420	.1108-01	.1503-01	1.814	12.65	577.9
40	90.000	.10000+00	990.00	.2468	.1962	.2658	.9361	.8794-02	.1190-01	1.588	10.29	560.8
40	90.000	.15000	991.00	.1141	.9170-01	.1308	.9239	.4108-02	.5855-02	.7770	5.687	552.6
40	135.00	.85000	888.00	.2080-01	.1700-01	.2490-01	.9130	.7613-03	.1117-02	.1540	.9820	538.9
40	135.00	.86000	889.00	.2380-01	.1950-01	.2860-01	.9130	.8722-03	.1280-02	.1770	1.122	539.0
40	135.00	.87000	890.00	.2210-01	.1810-01	.2650-01	.9130	.8085-03	.1187-02	.1640	1.043	539.4
40	135.00	.88000	891.00	.2610-01	.2130-01	.3130-01	.9130	.9531-03	.1402-02	.1920	1.232	540.2
40	135.00	.89000	892.00	.2320-01	.1890-01	.2790-01	.9130	.8486-03	.1250-02	.1710	1.113	540.7
40	135.00	.90000	893.00	.1790-01	.1460-01	.2150-01	.9130	.6535-03	.9626-03	.1310	.8670	540.7
40	135.00	.91000	894.00	.6300-02	.5200-02	.7600-02	.9130	.2323-03	.3406-03	.4700-01	.3450	538.8
40	135.00	.92600	895.00	.1200-01	.9800-02	.1440-01	.9130	.4371-03	.6461-03	.8700-01	.6360	542.1
40	135.00	.95000	896.00	.2300-01	.1870-01	.2780-01	.9130	.8390-03	.1243-02	.1670	1.205	543.2
40	142.30	.42000	897.00	.2300-01	.1880-01	.2740-01	.9130	.8432-03	.1227-02	.1740	1.126	535.2

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
40	142.30	.43500	898.00	.2820-01	.2320-01	.3370-01	.9130	.1037-02	.1509-02	.2140	1.346	535.3
40	142.30	.45000	899.00	.2490-01	.2040-01	.2970-01	.9130	.9143-03	.1331-02	.1890	1.241	535.4
40	142.30	.50000	900.00	.2610-01	.2140-01	.3120-01	.9130	.9572-03	.1397-02	.1960	1.312	536.8
40	142.30	.60000	901.00	.2740-01	.2250-01	.3280-01	.9130	.1006-02	.1468-02	.2060	1.374	536.9
40	142.30	.70000	902.00	.2490-01	.2030-01	.2990-01	.9130	.9090-03	.1338-02	.1830	1.252	540.5
40	142.30	.80000	903.00	.2390-01	.1950-01	.2860-01	.9130	.8725-03	.1281-02	.1770	1.126	539.3
40	142.30	.87000	904.00	.3010-01	.2450-01	.3610-01	.9130	.1099-02	.1617-02	.2210	1.404	540.2
40	154.98	.42000	905.00	.2650-01	.2170-01	.3160-01	.9130	.9719-03	.1415-02	.2000	1.299	535.5
40	154.98	.43500	906.00	.2290-01	.1880-01	.2730-01	.9130	.8410-03	.1224-02	.1730	1.131	535.6
40	154.98	.45000	907.00	.2600-01	.2140-01	.3110-01	.9130	.9561-03	.1392-02	.1970	1.291	535.8
40	154.98	.50000	908.00	.5780-01	.4690-01	.6980-01	.9130	.2100-02	.3125-02	.4130	2.961	545.1
40	154.98	.94500	914.00	.1390-01	.1130-01	.1680-01	.9130	.5075-03	.7520-03	.1010	.7270	543.2
40	157.50	.70000-01	918.00	.1802	.1443	.1915	.9381	.6464-02	.8577-02	1.204	8.337	555.3
40	157.50	.80000-01	919.00	.2658	.2097	.2887	.9352	.9389-02	.1293-01	1.650	11.15	565.9
40	157.50	.10000+00	920.00	.1981	.1590	.2200	.9297	.7121-02	.9853-02	1.338	8.907	553.8
40	157.50	.20000	922.00	.3810-01	.3130-01	.4530-01	.9134	.1403-02	.2031-02	.292'	1.955	533.9
40	157.50	.42000	923.00	.1690-01	.1390-01	.2020-01	.9130	.6202-03	.9030-03	.126.	.8380	535.6
40	157.50	.43500	924.00	.1870-01	.1540-01	.2240-01	.9130	.6881-03	.1002-02	.1420	.9320	535.7
40	157.50	.45000	925.00	.2120-01	.1740-01	.2530-01	.9130	.7795-03	.1135-02	.1610	1.067	535.6
40	157.50	.85000	926.00	.2300-01	.1880-01	.2760-01	.9130	.8415-03	.1237-02	.1700	1.103	539.7
40	157.50	.86000	927.00	.1750-01	.1430-01	.2100-01	.9130	.6400-03	.9396-03	.1290	.8430	539.3
40	157.50	.87000	928.00	.1860-01	.1520-01	.2230-01	.9130	.6785-03	.9995-03	.1360	.8900	540.7
40	157.50	.88000	929.00	.2090-01	.1710-01	.2520-01	.9130	.7646-03	.1127-02	.1540	1.008	540.9
40	157.50	.89000	930.00	.1480-01	.1210-01	.1780-01	.9130	.5404-03	.7980-03	.1080	.7130	541.8
40	157.50	.90000	931.00	.1090-01	.8900-02	.1310-01	.9130	.3985-03	.5878-03	.8000-01	.5400	541.3
40	157.50	.91000	932.00	.1000-01	.8200-02	.1200-01	.9130	.3653-03	.5358-03	.7400-01	.5440	538.9
40	157.50	.92600	933.00	.1020-01	.8300-02	.1220-01	.9130	.3705-03	.5466-03	.7400-01	.5430	541.4
40	163.12	.41500	934.00	.1310-01	.1080-01	.1570-01	.9130	.4823-03	.7016-03	.1000+00	.6500	535.2
40	163.12	.42000	935.00	.1130-01	.9300-02	.1350-01	.9130	.4162-03	.6051-03	.8600-01	.5660	535.0
40	163.12	.43000	937.00	.1520-01	.1240-01	.1810-01	.9130	.5574-03	.8115-03	.1150	.7580	535.6
40	163.12	.44000	938.00	.1650-01	.1350-01	.1970-01	.9130	.6048-03	.8814-03	.1240	.8180	536.0
40	163.12	.44500	939.00	.1620-01	.1330-01	.1940-01	.9130	.5953-03	.8676-03	.1220	.8170	536.1
40	163.12	.45000	940.00	.1690-01	.1390-01	.2020-01	.9130	.6205-03	.9042-03	.1280	.8520	536.0
40	163.12	.50000	941.00	.2400-01	.1960-01	.2870-01	.9130	.8774-03	.1286-02	.1780	1.215	538.4
40	163.12	.60000	942.00	.2350-01	.1930-01	.2820-01	.9130	.8620-03	.1261-02	.1760	1.140	537.6
40	163.12	.70000	943.00	.2320-01	.1890-01	.2790-01	.9130	.8470-03	.1249-02	.1700	1.169	541.2
40	163.12	.80000	944.00	.2320-01	.1900-01	.2790-01	.9130	.8489-03	.1248-02	.1710	1.122	539.8
40	168.00	.35000	945.00	.1060-01	.8700-02	.1260-01	.9130	.3898-03	.5661-03	.8100-01	.5150	534.4
40	168.00	.36000	946.00	.1020-01	.8300-02	.1210-01	.9130	.3739-03	.5431-03	.7700-01	.4950	534.6
40	168.00	.37000	947.00	.9200-02	.7500-02	.1090-01	.9130	.3366-03	.4885-03	.7000-01	.4480	534.1
40	168.00	.37500	948.00	.1110-01	.9100-02	.1320-01	.9130	.4084-03	.5931-03	.8500-01	.5430	534.5
40	168.00	.38500	950.00	.8200-02	.6700-02	.9700-02	.9130	.3009-03	.4362-03	.6300-01	.4060	533.7
40	168.00	.39000	951.00	.1040-01	.8500-02	.1240-01	.9130	.3817-03	.5543-03	.7900-01	.5160	534.4

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F07)

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
40	168.00	.39500	952.00	.1000-01	.8200-02	.1200-01	.9130	.3685-03	.5353-03	.7600-01	.4910	534.7
40	168.00	.40000	953.00	.1190-01	.9700-02	.1420-01	.9130	.4363-03	.6340-03	.9000-01	.5910	534.8
40	168.00	.40500	954.00	.1090-01	.9000-02	.1300-01	.9130	.4016-03	.5839-03	.8300-01	.5450	535.0
40	168.00	.41000	955.00	.1170-01	.9600-02	.1400-01	.9130	.4310-03	.6275-03	.8900-01	.5830	535.6
40	168.00	.41500	956.00	.1470-01	.1200-01	.1750-01	.9130	.5383-03	.7841-03	.1110	.7290	535.8
40	168.00	.42000	957.00	.1250-01	.1030-01	.1500-01	.9130	.4607-03	.6703-03	.9500-01	.6280	535.2
40	168.00	.42500	958.00	.1420-01	.1170-01	.1700-01	.9130	.5229-03	.7608-03	.1080	.7120	535.3
40	168.00	.43000	959.00	.1300-01	.1060-01	.1550-01	.9130	.4756-03	.6929-03	.9800-01	.6440	535.9
40	168.00	.44000	960.00	.1540-01	.1260-01	.1840-01	.9130	.5662-03	.8256-03	.1160	.7670	536.3
40	168.00	.44500	961.00	.1720-01	.1410-01	.2060-01	.9130	.6320-03	.9227-03	.1290	.8540	536.9
40	168.00	.45000	962.00	.1690-01	.1390-01	.2020-01	.9130	.6214-03	.9068-03	.1270	.8460	536.6
40	168.00	.45500	963.00	.1680-01	.1380-01	.2010-01	.9130	.6163-03	.8993-03	.1260	.8380	536.6
40	168.00	.46000	964.00	.2180-01	.1790-01	.2610-01	.9130	.8007-03	.1170-02	.1640	1.093	537.2
40	168.00	.47000	965.00	.2330-01	.1900-01	.2780-01	.9130	.8528-03	.1246-02	.1740	1.166	537.3
40	168.00	.48000	966.00	.2610-01	.2140-01	.3130-01	.9130	.9569-03	.1400-02	.1950	1.316	538.0
40	168.00	.49000	967.00	.2900-01	.2380-01	.3470-01	.9130	.1066-02	.1553-02	.2190	1.480	536.1
40	168.00	.85000	968.00	.2180-01	.1780-01	.2620-01	.9130	.7978-03	.1174-02	.1610	1.045	540.4
40	168.00	.86000	969.00	.1940-01	.1580-01	.2330-01	.9130	.7073-03	.1043-02	.1420	.9250	541.1
40	168.00	.87000	970.00	.2050-01	.1670-01	.2460-01	.9130	.7468-03	.1101-02	.1500	.9800	541.1
40	168.00	.88000	971.00	.1960-01	.1600-01	.2360-01	.9130	.7148-03	.1056-02	.1430	.9360	541.9
40	168.00	.89000	972.00	.2060-01	.1680-01	.2480-01	.9130	.7503-03	.1109-02	.1500	.9960	542.2
40	168.00	.92600	975.00	.7600-02	.6200-02	.9200-02	.9130	.2790-03	.4110-03	.5600-01	.4070	540.8
40	168.00	.95000	976.00	.2000-01	.1620-01	.2410-01	.9130	.7261-03	.1078-02	.1440	1.036	543.9

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = 5.000 BETA = -3.000 GRIT = 3.000 RN/L = 5.000

•••TEST CONDITIONS•••

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
31	5.500	4.957	4.990	3.000	-31.00	177.9	.1910	744.0	105.5	4.048	2768.	.1521-03
41	5.500	4.934	4.990	3.000	-31.00	177.7	.1910	745.0	105.7	4.044	2771.	.1516-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
31	.8492-07	.4478-01	.1365-01
41	.8512-07	.4477-01	.1368-01

•••TEST DATA•••

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
41	.00000	.12000-01	977.00	.6187	.4503	.5321	.9718	.2016-01	.2382-01	2.760	16.96	608.5
41	.00000	.15100-01	978.00	.5150	.3931	.4583	.9700	.1760-01	.2052-01	2.771	18.58	588.0
41	.00000	.18000-01	979.00	.4321	.3336	.3889	.9688	.1494-01	.1741-01	2.441	16.57	582.0
41	.00000	.24000-01	980.00	.3576	.2795	.3271	.9667	.1251-01	.1465-01	2.135	14.11	574.8
41	.00000	.33000-01	981.00	.3059	.2418	.2841	.9645	.1083-01	.1272-01	1.925	12.21	567.6
31	78.000	.30000	796.00	.4550-01	.3700-01	.5460-01	.9141	.1656-02	.2447-02	.3270	1.985	546.0
31	78.000	.31000	797.00	.4840-01	.3930-01	.5800-01	.9141	.1759-02	.2599-02	.3480	2.110	545.9
31	78.000	.32000	798.00	.4610-01	.3750-01	.5530-01	.9141	.1677-02	.2477-02	.3320	2.002	545.7
31	78.000	.32500	799.00	.4890-01	.3970-01	.5860-01	.9141	.1777-02	.2625-02	.3510	2.125	545.9
31	78.000	.33000	800.00	.4620-01	.3760-01	.5550-01	.9141	.1682-02	.2483-02	.3330	2.014	545.7
31	78.000	.33500	801.00	.5020-01	.4070-01	.6020-01	.9141	.1824-02	.2695-02	.3610	2.181	545.9
31	78.000	.34000	802.00	.4770-01	.3880-01	.5720-01	.9141	.1737-02	.2562-02	.3440	2.084	545.3
31	78.000	.34500	803.00	.4670-01	.3800-01	.5600-01	.9141	.1700-02	.2508-02	.3370	2.045	545.3
31	78.000	.35000	804.00	.4740-01	.3850-01	.5680-01	.9141	.1724-02	.2542-02	.3420	2.074	545.2
31	78.000	.35500	805.00	.4740-01	.3850-01	.5680-01	.9141	.1726-02	.2545-02	.3430	2.079	545.1
31	78.000	.36000	806.00	.4080-01	.3320-01	.4880-01	.9141	.1485-02	.2187-02	.2960	1.801	544.4
31	78.000	.36500	807.00	.4630-01	.3760-01	.5550-01	.9141	.1686-02	.2487-02	.3340	2.039	545.3
31	78.000	.37000	808.00	.4580-01	.3720-01	.5500-01	.9141	.1667-02	.2461-02	.3300	2.019	545.6
31	78.000	.37500	809.00	.4070-01	.3300-01	.4880-01	.9141	.1479-02	.2184-02	.2930	1.790	545.7
31	78.000	.38000	810.00	.4640-01	.3770-01	.5560-01	.9141	.1687-02	.2490-02	.3340	2.057	545.4

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F08)

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
31	78.000	.39000	811.00	.5730-01	.4330-01	.6390-01	.9141	.1939-02	.2861-02	.3850	2.372	545.3
31	78.000	.40000	812.00	.4610-01	.3750-01	.5530-01	.9141	.1678-02	.2478-02	.3320	2.047	545.7
41	90.000	.40000-01	985.00	.1770	.1426	.1686	.9603	.6386-02	.7549-02	1.226	7.949	553.4
41	90.000	.50000-01	986.00	.1795	.1451	.1739	.9568	.6498-02	.7788-02	1.264	8.161	550.8
41	90.000	.60000-01	987.00	.1581	.1268	.1555	.9533	.5679-02	.6964-02	1.070	7.689	556.9
41	90.000	.70000-01	988.00	.2131	.1699	.2132	.9500	.7605-02	.9544-02	1.396	9.311	561.9
41	90.000	.80000-01	989.00	.3607	.2770	.3678	.9468	.1240-01	.1647-01	1.992	13.85	584.7
41	90.000	.10000+00	990.00	.2792	.2206	.2937	.9407	.9878-02	.1315-01	1.756	11.34	567.7
41	90.000	.15000	991.00	.1442	.1151	.1627	.9276	.5153-02	.7285-02	.9510	6.532	560.9
31	90.000	.23000	813.00	.4000-01	.3240-01	.4780-01	.9145	.1453-02	.2142-02	.2860	2.091	545.7
31	90.000	.24000	814.00	.3060-01	.2480-01	.3670-01	.9137	.1112-02	.1644-02	.2200	1.784	545.4
31	90.000	.27000	816.00	.3090-01	.2510-01	.3710-01	.9137	.1124-02	.1661-02	.2230	1.585	545.3
31	90.000	.29000	817.00	.3300-01	.2690-01	.3960-01	.9137	.1204-02	.1775-02	.2400	1.496	544.0
31	90.000	.30000	818.00	.3990-01	.3240-01	.4790-01	.9137	.1453-02	.2147-02	.2880	1.763	545.1
31	90.000	.31000	819.00	.4280-01	.3470-01	.5140-01	.9137	.1556-02	.2300-02	.3090	1.872	545.2
31	90.000	.32000	820.00	.4390-01	.3570-01	.5280-01	.9137	.1598-02	.2364-02	.3160	1.914	545.5
31	90.000	.32500	821.00	.4350-01	.3540-01	.5230-01	.9137	.1584-02	.2343-02	.3140	1.893	545.4
31	90.000	.33000	822.00	.4710-01	.3830-01	.5660-01	.9137	.1715-02	.2533-02	.3410	2.064	544.8
31	90.000	.33500	823.00	.4520-01	.3670-01	.5430-01	.9137	.1645-02	.2430-02	.3270	1.983	544.9
31	90.000	.34000	824.00	.4770-01	.3880-01	.5730-01	.9137	.1738-02	.2565-02	.3460	2.089	544.4
31	90.000	.34500	825.00	.4520-01	.3680-01	.5430-01	.9137	.1648-02	.2432-02	.3280	1.984	544.6
31	90.000	.35000	826.00	.4530-01	.3680-01	.5440-01	.9137	.1649-02	.2436-02	.3280	1.983	544.8
31	90.000	.36000	828.00	.4600-01	.3740-01	.5520-01	.9137	.1673-02	.2470-02	.3330	2.010	544.6
31	90.000	.37000	830.00	.4320-01	.3510-01	.5190-01	.9137	.1573-02	.2322-02	.3130	1.899	544.6
31	90.000	.37500	831.00	.4380-01	.3570-01	.5260-01	.9137	.1597-02	.2356-02	.3180	1.941	544.4
31	90.000	.38000	832.00	.4170-01	.3390-01	.5010-01	.9137	.1520-02	.2244-02	.3020	1.845	544.6
31	90.000	.39000	833.00	.4590-01	.3730-01	.5510-01	.9137	.1671-02	.2467-02	.3330	2.053	544.5
31	90.000	.40000	834.00	.4220-01	.3430-01	.5060-01	.9137	.1535-02	.2268-02	.3050	1.887	544.9
31	90.000	.50000	835.00	.4780-01	.3880-01	.5760-01	.9137	.1737-02	.2578-02	.3420	2.162	546.7
31	90.000	.60000	836.00	.4660-01	.3760-01	.5630-01	.9137	.1684-02	.2520-02	.3260	2.167	550.1
31	90.000	.70000	837.00	.3810-01	.3060-01	.4620-01	.9137	.1370-02	.2071-02	.2800	1.825	553.8
31	90.000	.80000	838.00	.3500-01	.2620-01	.4240-01	.9137	.1262-02	.1998-02	.2420	1.501	551.8
31	90.000	.90000	839.00	.1850-01	.1490-01	.2240-01	.9137	.6672-03	.1001-02	.1230	.8180	551.3
31	90.000	.23000	840.00	.3000-01	.2440-01	.3600-01	.9135	.1092-02	.1612-02	.2180	1.757	544.3
31	112.50	.25000	841.00	.1710-01	.1400-01	.2060-01	.9131	.6259-03	.9207-03	.1260	.9820	541.8
31	112.50	.27000	842.00	.1390-01	.1140-01	.1670-01	.9131	.5098-03	.7490-03	.1030	.7240	541.2
31	112.50	.30000	843.00	.3330-01	.2710-01	.4000-01	.9131	.1214-02	.1791-02	.2430	1.451	543.1
31	112.50	.33000	844.00	.4100-01	.3330-01	.4940-01	.9131	.1492-02	.2210-02	.2970	1.792	544.6
31	112.50	.35000	845.00	.3790-01	.3080-01	.4560-01	.9131	.1380-02	.2042-02	.2750	1.689	544.2
31	112.50	.37000	846.00	.4220-01	.3430-01	.5080-01	.9131	.1535-02	.2274-02	.3060	1.885	544.6
31	112.50	.40000	847.00	.3610-01	.2940-01	.4340-01	.9131	.1317-02	.1945-02	.2640	1.646	543.4
31	112.50	.45000	848.00	.3770-01	.3070-01	.4530-01	.9131	.1373-02	.2029-02	.2750	1.730	543.5
31	112.50	.50000	849.00	.3680-01	.3000-01	.4430-01	.9131	.1342-02	.1984-02	.2680	1.727	543.8

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AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F08)

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R=TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
31	112.50	.55000	850.00	.2990-01	.2440-01	.3590-01	.9131	.1091-02	.1609-02	.2190	1.486	542.9
31	112.50	.60000	851.00	.3290-01	.2680-01	.3960-01	.9131	.1201-02	.1775-02	.2400	1.609	543.9
31	112.50	.65000	852.00	.3340-01	.2710-01	.4020-01	.9131	.1215-02	.1799-02	.2420	1.646	544.6
31	112.50	.70000	853.00	.2080-01	.1690-01	.2510-01	.9131	.7577-03	.1125-02	.1500	1.053	545.7
31	112.50	.75000	854.00	.2120-01	.1730-01	.2550-01	.9131	.7739-03	.1143-02	.1550	1.005	543.6
31	112.50	.80000	855.00	.2450-01	.2000-01	.2950-01	.9131	.8937-03	.1321-02	.1790	1.164	543.7
31	112.50	.90000	856.00	.1740-01	.1410-01	.2090-01	.9131	.6320-03	.9356-03	.1260	.8170	544.4
31	112.50	.84000	857.00	.2440-01	.1990-01	.2930-01	.9130	.8906-03	.1312-02	.1790	1.112	542.1
31	125.40	.85000	858.00	.2440-01	.1990-01	.2930-01	.9130	.8898-03	.1311-02	.1790	1.116	542.3
31	125.40	.86000	859.00	.2470-01	.2010-01	.2970-01	.9130	.9023-03	.1330-02	.1820	1.141	542.3
31	125.40	.87000	860.00	.2400-01	.1960-01	.2880-01	.9130	.8759-03	.1291-02	.1760	1.109	542.5
31	125.40	.88000	861.00	.2470-01	.2020-01	.2970-01	.9130	.9025-03	.1331-02	.18:0	1.142	542.7
31	125.40	.89000	862.00	.2490-01	.2030-01	.2990-01	.9130	.9082-03	.1339-02	.1820	1.156	542.7
31	125.40	.90000	863.00	.2130-01	.1740-01	.2560-01	.9130	.7780-03	.1146-02	.1570	.9990	542.1
31	125.40	.91000	864.00	.1300-01	.1060-01	.1560-01	.9130	.4767-03	.7001-03	.9700-01	.7050	540.8
31	125.40	.92600	865.00	.1540-01	.1250-01	.1850-01	.9130	.5617-03	.8303-03	.1120	.8150	543.6
31	129.30	.80000	866.00	.2070-01	.1690-01	.2490-01	.9130	.7571-03	.1115-02	.1520	.9600	542.2
31	129.30	.81000	867.00	.2210-01	.1800-01	.2650-01	.9130	.8051-03	.1187-02	.1620	1.014	542.5
31	129.30	.82000	868.00	.2150-01	.1760-01	.2590-01	.9130	.7864-03	.1160-02	.1580	.9900	542.6
31	129.30	.83000	869.00	.2220-01	.1810-01	.2670-01	.9130	.8099-03	.1195-02	.1630	1.021	542.9
31	135.00	.40000-01	870.00	.1585	.1268	.1562	.9529	.5690-02	.6995-02	1.058	6.764	557.4
31	135.00	.50000-01	871.00	.1526	.1225	.1531	.9494	.5487-02	.6854-02	1.034	6.582	555.1
31	135.00	.60000-01	872.00	.1410	.1125	.1438	.9461	.5038-02	.6440-02	.9280	6.127	559.3
31	135.00	.70000-01	873.00	.2939	.2239	.3039	.9429	.1002-01	.1361-01	1.615	10.79	582.5
31	135.00	.10000+00	875.00	.2228	.1760	.2434	.9340	.7883-02	.1090-01	1.397	9.077	566.4
31	135.00	.15000	876.00	.1066	.8520-01	.1239	.9223	.3814-02	.5547-02	.7050	5.126	558.8
31	135.00	.20000	877.00	.4930-01	.4000-01	.5900-01	.9149	.1792-02	.2641-02	.3530	2.382	546.5
31	135.00	.35000	878.00	.2950-01	.2410-01	.3550-01	.9130	.1077-02	.1569-02	.2170	1.348	542.6
31	135.00	.40000	879.00	.3480-01	.2830-01	.4180-01	.9130	.1268-02	.1871-02	.2540	1.616	542.9
31	135.00	.50000	880.00	.2630-01	.2140-01	.3160-01	.9130	.9582-03	.1415-02	.1920	1.321	543.2
31	135.00	.55000	881.00	.2000-01	.1630-01	.2410-01	.9130	.7315-03	.1078-02	.1470	.9830	542.4
31	135.00	.60000	882.00	.2440-01	.1990-01	.2930-01	.9130	.8909-03	.1313-02	.1790	1.207	542.5
31	135.00	.65000	883.00	.2780-01	.2260-01	.3340-01	.9130	.1013-02	.1495-02	.2030	1.388	543.1
31	135.00	.70000	884.00	.2320-01	.1890-01	.2790-01	.9130	.8450-03	.1248-02	.1690	1.204	543.4
31	135.00	.75000	885.00	.2020-01	.1650-01	.2430-01	.9130	.7368-03	.1088-02	.1480	.9320	543.2
31	135.00	.80000	886.00	.2750-01	.2250-01	.3290-01	.9130	.1006-02	.1476-02	.2050	1.291	541.4
31	135.00	.84000	887.00	.2970-01	.2420-01	.3550-01	.9130	.1086-02	.1593-02	.2210	1.395	541.2
41	135.00	.85000	888.00	.2700-01	.2210-01	.3220-01	.9130	.9836-03	.1441-02	.2050	1.305	538.3
41	135.00	.85000	889.00	.2070-01	.1693-01	.2470-01	.9130	.7598-03	.1105-02	.1570	.9970	538.3
41	135.00	.87000	890.00	.1910-01	.1560-01	.2280-01	.9130	.7002-03	.1021-02	.1450	.9220	539.0
41	135.00	.88000	891.00	.2250-01	.1840-01	.2690-01	.9130	.8250-03	.1204-02	.1700	1.091	539.4
41	135.00	.89000	892.00	.2190-01	.1800-01	.2620-01	.9130	.8039-03	.1174-02	.1660	1.081	539.5
41	135.00	.90000	893.00	.1630-01	.1340-01	.1950-01	.9130	.5982-03	.8740-03	.1230	.8120	539.9

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AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
41	135.00	.91000	894.00	.4400-02	.3600-02	.5300-02	.9130	.1618-03	.2358-03	.3300-01	.2450	538.7
41	135.00	.92600	895.00	.9500-02	.7700-02	.1140-01	.9130	.3469-03	.5090-03	.7100-01	.5150	541.8
41	135.00	.95000	896.00	.3000-01	.2450-01	.3600-01	.9130	.1095-02	.1612-02	.2220	1.604	543.1
41	142.30	.42000	897.00	.2970-01	.2440-01	.3540-01	.9130	.1095-02	.1586-02	.2290	1.480	536.2
41	142.30	.43500	898.00	.2970-01	.2440-01	.3540-01	.9130	.1093-02	.1584-02	.2290	1.439	535.9
41	142.30	.45000	899.00	.2750-01	.2260-01	.3270-01	.9130	.1012-02	.1465-02	.2120	1.395	535.8
41	142.30	.50000	900.00	.2600-01	.2130-01	.3100-01	.9130	.9556-03	.1388-02	.1990	1.331	537.4
41	142.30	.60000	901.00	.2670-01	.2190-01	.3180-01	.9130	.9824-03	.1423-02	.2060	1.374	535.9
41	142.30	.70000	902.00	.2390-01	.1960-01	.2860-01	.9130	.8764-03	.1281-02	.1800	1.232	540.1
41	142.30	.80000	903.00	.2350-01	.1920-01	.2810-01	.9130	.8616-03	.1256-02	.1780	1.134	539.1
41	142.30	.87000	904.00	.1480-01	.1210-01	.1770-01	.9130	.5410-03	.7916-03	.1110	.7030	540.6
41	154.98	.42000	905.00	.2960-01	.2430-01	.3520-01	.9130	.1089-02	.1577-02	.2280	1.481	535.7
41	154.98	.43500	906.00	.2700-01	.2220-01	.3210-01	.9130	.9937-03	.1439-02	.2080	1.358	535.9
41	154.98	.45000	907.00	.2650-01	.2180-01	.3150-01	.9130	.9741-03	.1411-02	.2040	1.339	535.9
41	154.98	.50000	908.00	.1620-01	.1330-01	.1930-01	.9130	.5966-03	.8660-03	.1240	.8940	537.0
41	154.98	.94500	914.00	.3770-01	.3070-01	.4530-01	.9130	.1377-02	.2028-02	.2780	2.004	543.6
41	157.50	.70000-01	918.00	.1985	.1581	.2095	.9397	.7078-02	.9381-02	1.295	8.934	562.4
41	157.50	.80000-01	919.00	.2905	.2281	.3133	.9367	.1021-01	.1403-01	1.771	11.93	572.0
41	157.50	.10000+00	920.00	.2053	.1646	.2264	.9312	.7368-02	.1014-01	1.383	9.190	557.7
41	157.50	.20000	922.00	.3860-01	.3180-01	.4580-01	.9139	.1424-02	.2049-02	.3000	2.008	535.0
41	157.50	.42000	923.00	.2510-01	.2070-01	.2990-01	.9130	.9256-03	.1340-02	.1940	1.274	535.6
41	157.50	.43500	924.00	.2600-01	.2130-01	.3090-01	.9130	.9558-03	.1383-02	.2010	1.322	535.3
41	157.50	.45000	925.00	.2530-01	.2080-01	.3010-01	.9130	.9319-03	.1348-02	.1960	1.301	535.2
41	157.50	.85000	926.00	.1810-01	.1490-01	.2170-01	.9130	.6659-03	.9709-03	.1370	.8920	539.0
41	157.50	.86000	927.00	.1740-01	.1420-01	.2080-01	.9130	.6374-03	.9304-03	.1310	.8540	539.5
41	157.50	.87000	928.00	.1860-01	.1520-01	.2220-01	.9130	.6803-03	.9931-03	.1400	.9150	539.5
41	157.50	.88000	929.00	.1820-01	.1490-01	.2180-01	.9130	.6663-03	.9743-03	.1370	.8980	540.2
41	157.50	.89000	930.00	.1860-01	.1520-01	.2230-01	.9130	.6815-03	.9968-03	.1400	.9220	540.4
41	157.50	.90000	931.00	.1260-01	.1030-01	.1510-01	.9130	.4617-03	.6758-03	.9500-01	.6390	540.7
41	157.50	.92600	933.00	.1050-01	.8600-02	.1260-01	.9130	.3846-03	.5647-03	.7800-01	.5710	542.2
41	163.12	.41500	934.00	.2320-01	.1910-01	.2760-01	.9130	.8552-03	.1237-02	.1800	1.173	535.1
41	163.12	.42000	935.00	.2400-01	.1980-01	.2860-01	.9130	.8851-03	.1280-02	.1860	1.224	535.3
41	163.12	.43000	937.00	.2360-01	.1940-01	.2810-01	.9130	.8684-03	.1257-02	.1820	1.203	535.5
41	163.12	.44000	938.00	.2540-01	.2090-01	.3030-01	.9130	.9373-03	.1356-02	.1970	1.296	535.3
41	163.12	.44500	939.00	.2390-01	.1960-01	.2840-01	.9130	.8794-03	.1272-02	.1850	1.234	535.4
41	163.12	.45000	940.00	.2310-01	.1900-01	.2750-01	.9130	.8506-03	.1230-02	.1790	1.194	535.2
41	163.12	.50000	941.00	.2350-01	.1930-01	.2800-01	.9130	.8633-03	.1253-02	.1800	1.226	537.0
41	163.12	.60000	942.00	.2200-01	.1810-01	.2620-01	.9130	.8117-03	.1175-02	.1700	1.104	535.6
41	163.12	.70000	943.00	.2100-01	.1720-01	.2510-01	.9130	.7712-03	.1126-02	.1590	1.094	539.6
41	163.12	.80000	944.00	.1910-01	.1570-01	.2290-01	.9130	.7018-03	.1024-02	.1450	.9480	539.1
41	168.00	.35000	945.00	.1240-01	.1020-01	.1480-01	.9130	.4578-03	.6611-03	.9700-01	.6160	534.6
41	168.00	.36000	946.00	.1390-01	.1150-01	.1650-01	.9130	.5130-03	.7408-03	.1080	.6920	534.6
41	168.00	.37000	947.00	.1450-01	.1190-01	.1720-01	.9130	.5336-03	.7704-03	.1130	.7220	534.4

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AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F08)

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
41	168.00	.37500	948.00	.1240-01	.1020-01	.1470-01	.9130	.4553-03	.6578-03	.9600-01	.6150	534.8
41	168.00	.38500	950.00	.1340-01	.1110-01	.1600-01	.9130	.4956-03	.7150-03	.1050	.6790	534.1
41	168.00	.39000	951.00	.1700-01	.1400-01	.2020-01	.9130	.6249-03	.9024-03	.1320	.8600	534.5
41	168.00	.39500	952.00	.1720-01	.1410-01	.2040-01	.9130	.6330-03	.9151-03	.1330	.8560	535.0
41	168.00	.40000	953.00	.1250-01	.1030-01	.1490-01	.9130	.4605-03	.6653-03	.9700-01	.6350	534.7
41	168.00	.40500	954.00	.1890-01	.1550-01	.2240-01	.9130	.6944-03	.1004-02	.1460	.9580	535.3
41	168.00	.41000	955.00	.2170-01	.1780-01	.2580-01	.9130	.7984-03	.1155-02	.1680	1.101	535.2
41	168.00	.41500	956.00	.1350-01	.1110-01	.1600-01	.9130	.4972-03	.7185-03	.1050	.6890	534.9
41	168.00	.42000	957.00	.2050-01	.1690-01	.2440-01	.9130	.7563-03	.1093-02	.1590	1.051	534.9
41	168.00	.42500	958.00	.2340-01	.1930-01	.2790-01	.9130	.8630-03	.1248-02	.1810	1.198	535.2
41	168.00	.43000	959.00	.2290-01	.1890-01	.2730-01	.9130	.8446-03	.1222-02	.1770	1.168	535.3
41	168.00	.44000	960.00	.2650-01	.2180-01	.3150-01	.9130	.9761-03	.1410-02	.2060	1.358	534.7
41	169.00	.44500	961.00	.2630-01	.2160-01	.3130-01	.9130	.9691-03	.1401-02	.2040	1.346	535.0
41	168.00	.45000	962.00	.2470-01	.2030-01	.2940-01	.9130	.9107-03	.1318-02	.1910	1 269	535.5
41	168.00	.45500	963.00	.2430-01	.2000-01	.2890-01	.9130	.8952-03	.1295-02	.1890	1.248	535.4
41	168.00	.46000	964.00	.2320-01	.1910-01	.2760-01	.9130	.8546-03	.1236-02	.1800	1.199	535.4
41	168.00	.47000	965.00	.2370-01	.1950-01	.2820-01	.9130	.8719-03	.1263-02	.183[illegible]	1.223	535.9
41	168.00	.48000	966.00	.2310-01	.1900-01	.2750-01	.9130	.8487-03	.1229-02	.1780	1.202	535.9
41	168.00	.49000	967.00	.2460-01	.2020-01	.2920-01	.9130	.9049-03	.1308-02	.1910	1.288	534.9
41	168.00	.85000	968.00	.2390-01	.1960-01	.2860-01	.9130	.8785-03	.1281-02	.1810	1.181	539.0
41	168.00	.86000	969.00	.2280-01	.1870-01	.2730-01	.9130	.8376-03	.1222-02	.1730	1.127	539.4
41	168.00	.87000	970.00	.2380-01	.1950-01	.2850-01	.9130	.8732-03	.1275-02	.1800	1.176	539.8
41	168.00	.88000	971.00	.2330-01	.1910-01	.2790-01	.9130	.8541-03	.1250-02	.1750	1.149	540.5
41	168.00	.89000	972.00	.2220-01	.1810-01	.2650-01	.9130	.8111-03	.1188-02	.1660	1.104	541.1
41	168.00	.90000	973.00	.2640-01	.2160-01	.3170-01	.9130	.9669-03	.1417-02	.1970	1.346	541.3
41	168.00	.91000	974.00	.1070-01	.8700-02	.1270-01	.9130	.3902-03	.5708-03	.8000-01	.5650	540.5
41	168.00	.92600	975.00	.1830-01	.1500-01	.2200-01	.9130	.6697-03	.9842-03	.1360	.9870	542.5
41	169.00	.95000	976.00	.2870-01	.2340-01	.3450-01	.9130	.1048-02	.1546-02	.2110	1.522	544,0

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = 5.000 BETA = -6.000 GRIT = 3.000 RN/L = 5.000

•••TEST CONDITIONS•••

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P P,IA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
32	5.500	4.976	5.040	6.000	-50.00	177.9	.1910	742.0	105.2	4.048	2764.	.1525-03
33	5.500	4.987	5.030	6.000	-50.00	177.8	.1910	740.0	105.0	4.047	2762.	.1527-03
34	5.500	4.991	5.030	6.000	-50.00	177.8	.1910	740.0	105.0	4.048	2761.	.1528-03
42	5.500	4.987	5.030	6.000	-50.00	177.8	.1910	740.0	105.0	4.047	2762.	.1527-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
32	.8470-07	.4477-01	.1363-01
33	.8455-07	.4475-01	.1362-01
34	.8452-07	.4475-01	.1361-01
42	.8455-07	.4475-01	.1362-01

•••TEST DATA•••

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
42	.00000	.12000-01	977.00	.5844	.4194	.5001	.9714	.1877-01	.2238-01	2.461	15.12	609.3
42	.00000	.15100-01	978.00	.4975	.3751	.4410	.9696	.1678-01	.1973-01	2.525	16.92	589.9
42	.00000	.18000-01	979.00	.4285	.3280	.3849	.9685	.1468-01	.1722-01	2.316	15.72	582.6
42	.00000	.24000-01	980.00	.3473	.2694	.3173	.9664	.1205-01	.1420-01	1.988	13.13	575.4
42	.00000	.33000-01	981.00	.3053	.2396	.2832	.9642	.1072-01	.1267-01	1.844	11.69	568.4
33	.00000	.40000-01	737.00	.1958	.1559	.1831	.9635	.5975-02	.8193-02	1.266	8.207	558.9
33	.00000	.45000-01	738.00	.1855	.1477	.1750	.9618	.6611-02	.7829-02	1.203	7.917	558.5
33	.00000	.60000-01	739.00	.1672	.1330	.1618	.9566	.5950-02	.7238-02	1.075	7.175	559.8
33	.00000	.70000-01	740.00	.2345	.1836	.2304	.9532	.8216-02	.1031-01	1.402	9.374	569.7
33	.00000	.80000-01	741.00	.3490	.2653	.3491	.9499	.1187-01	.1562-01	1.832	13.06	586.3
33	.00000	.10000+00	742.00	.3005	.2351	.3113	.9437	.1052-01	.1393-01	1.792	11.83	570.1
33	.00000	.12500	743.00	.2038	.1593	.2203	.9366	.7129-02	.9860-02	1.209	8.683	570.8
33	.00000	.15000	744.00	.1630	.1293	.1818	.9302	.5784-02	.8137-02	1.034	7.135	561.6
33	.00000	.17500	745.00	.1059	.8510-01	.1209	.9246	.3807-02	.5408-02	.7181	5.384	551.8
33	.00000	.20000	746.00	.6850-01	.5550-01	.7970-01	.9199	.2485-02	.3567-02	.4860	3.477	545.0
33	.00000	.21500	747.00	.6130-01	.4980-01	.7220-01	.9176	.2228-02	.3229-02	.4390	3.044	543.6

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F09)

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
33	.00000	.23000	748.00	.5080-01	.4130-01	.6040-01	.9156	.1847-02	.2705-02	.3640	2.695	543.3
33	.00000	.24000	749.00	.4170-01	.3390-01	.4990-01	.9146	.1517-02	.2234-02	.2990	2.255	543.5
33	.00000	.25000	750.00	.2100-01	.1710-01	.2510-01	.9146	.7645-03	.1122-02	.1520	1.230	542.0
33	.00000	.30000	751.00	.5090-01	.4130-01	.6080-01	.9146	.1847-02	.2723-02	.3630	2.387	543.7
33	.00000	.35000	752.00	.5370-01	.4380-01	.6390-01	.9146	.1958-02	.2859-02	.3930	2.492	539.8
33	.00000	.40000	753.00	.4890-01	.3990-01	.5820-01	.9146	.1787-02	.2604-02	.3600	2.327	538.8
33	.00000	.50000	754.00	.4750-01	.3850-01	.5680-01	.9146	.1723-02	.2541-02	.3380	2.218	544.0
33	.00000	.60000	755.00	.4140-01	.3370-01	.4950-01	.9146	.1509-02	.2213-02	.3000	1.930	541.5
33	.00000	.70000	756.00	.3610-01	.2930-01	.4330-01	.9146	.1310-02	.1940-02	.2550	1.685	545.7
33	.00000	.80000	757.00	.3960-01	.3210-01	.4750-01	.9146	.1438-02	.2124-02	.2820	1.767	544.5
33	.00000	.90000	758.00	.2100-01	.1690-01	.2530-01	.9146	.7555-03	.1132-02	.1440	.9280	550.2
33	55.000	.22000	759.00	.7050-01	.5700-01	.8250-01	.9193	.2553-02	.3691-02	.4950	3.682	546.6
33	55.000	.25000	760.00	.3240-01	.2630-01	.3850-01	.9164	.1177-02	.1722-02	.2300	1.808	544.6
33	55.000	.27000	761.00	.4420-01	.3560-01	.5270-01	.9164	.1593-02	.2360-02	.3040	2.257	549.8
33	55.000	.30000	762.00	.6350-01	.5140-01	.7540-01	.9164	.2301-02	.3375-02	.4480	2.693	545.8
33	55.000	.32000	763.00	.6470 01	.5250-01	.7670-01	.9164	.2350-02	.3434-02	.4610	2.730	544.3
33	55.000	.34000	764.00	.6890-01	.5600-01	.8160-01	.9164	.2504-02	.3652-02	.4930	2.929	543.5
33	55.000	.38000	766.00	.6010-01	.4880-01	.7110-01	.9164	.2185-02	.3180-02	.4320	2.634	542.5
33	55.000	.40000	767.00	.5920-01	.4810-01	.7000-01	.9164	.2152-02	.3132-02	.4260	2.666	542.6
33	67.500	.23000	768.00	.6270-01	.5070-01	.7400-01	.9175	.2268-02	.3312-02	.4400	3.271	546.6
33	67.500	.25000	769.00	.2990-01	.2430-01	.3550-01	.9162	.1087-02	.1589-02	.2140	1.664	543.9
33	67.500	.27000	770.00	.5040-01	.4070-01	.6030-01	.9162	.1820-02	.2696-02	.3470	2.531	549.5
33	67.500	.29000	771.00	.4260-01	.3450-01	.5060-01	.9162	.1545-02	.2263-02	.3020	1.876	544.6
33	67.500	.30000	772.00	.5790-01	.4690-01	.6880-01	.9162	.2097-02	.3080-02	.4080	2.497	545.7
33	67.500	.31000	773.00	.6270-01	.5080-01	.7450-01	.9162	.2275-02	.3334-02	.4450	2.699	544.9
33	67.500	.32000	774.00	.6640-01	.5390-01	.7880-01	.9162	.2414-02	.3526-02	.4750	2.861	543.6
33	67.500	.32500	775.00	.6290-01	.5110-01	.7450-01	.9162	.2284-02	.3336-02	.4500	2.720	543.3
33	67.500	.33000	776.00	.6260-01	.5090-01	.7420-01	.9162	.2278-02	.3322-02	.4500	2.725	542.9
33	67.500	.33500	777.00	.6290-01	.5120-01	.7460-01	.9162	.2290-02	.3337-02	.4530	2.745	542.5
33	67.500	.34000	778.00	.6310-01	.5130-01	.7470-01	.9162	.2295-02	.3344-02	.4540	2.751	542.5
33	67.500	.34500	779.00	.6150-01	.5000-01	.7280-01	.9162	.2237-02	.3258-02	.4430	2.690	542.4
33	67.500	.35000	780.00	.5950-01	.4840-01	.7050-01	.9162	.2166-02	.3154-02	.4290	2.616	542.2
33	67.500	.35500	781.00	.5730-01	.4660-01	.6790-01	.9162	.2086-02	.3039-02	.4130	2.524	542.3
33	67.500	.36000	782.00	.6020-01	.4900-01	.7130-01	.9162	.2193-02	.3192-02	.4350	2.656	542.1
33	67.500	.36500	783.00	.5620-01	.4570-01	.6650-01	.9162	.2047-02	.2975-02	.4070	2.481	541.5
33	67.500	.37000	784.00	.5680-01	.4620-01	.6710-01	.9162	.2067-02	.3004-02	.4120	2.524	541.2
33	67.500	.37500	785.00	.5150-01	.4200-01	.6100-01	.9162	.1877-02	.2729-02	.3730	2.307	541.5
33	67.500	.38000	786.00	.5270-01	.4290-01	.6240-01	.9162	.1919-02	.2793-02	.3810	2.360	541.9
33	67.500	.39000	787.00	.5640-01	.4580-01	.6680-01	.9162	.2051-02	.2988-02	.4060	2.524	542.3
33	67.500	.40000	788.00	.5200-01	.4230-01	.6160-01	.9162	.1892-02	.2757-02	.3740	2.344	542.5
33	67.500	.50000	789.00	.5310-01	.4290-01	.6340-01	.9162	.1919-02	.2835-02	.3690	2.364	548.1
33	67.500	.60000	790.00	.5660-01	.4590-01	.6720-01	.9162	.2052-02	.3007-02	.4010	2.635	544.9
33	67.500	.70000	791.00	.4280-01	.3440-01	.5130-01	.9162	.1540-02	.2297-02	.2900	2.044	552.0

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F09)

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
33	67.500	.80000	792.00	.5260-01	.4210-01	.6330-01	.9162	.1883-02	.2834-02	.3490	2.181	555.3
33	67.500	.90000	793.00	.1890-01	.1500-01	.2300-01	.9162	.6709-03	.1030-02	.1190	.7640	562.3
33	78.000	.27000	794.00	.4770-01	.3850-01	.5710-01	.9158	.1723-02	.2555-02	.3300	2.351	548.8
33	78.000	.29000	795.00	.4640-01	.3770-01	.5510-01	.9158	.1688-02	.2465-02	.3340	2.064	542.5
34	78.000	.30000	796.00	.6010-01	.4860-01	.7160-01	.9158	.2176-02	.3203-02	.4230	2.566	545.7
34	78.000	.31000	797.00	.5950-01	.4820-01	.7080-01	.9158	.2158-02	.3169-02	.4220	2.559	544.6
34	78.000	.32000	798.00	.5960-01	.4840-01	.7090-01	.9158	.2166-02	.3174-02	.4250	2.566	543.9
34	78.000	.32500	799.00	.6160-01	.5000-01	.7320-01	.9158	.2236-02	.3276-02	.4390	2.660	543.6
34	78.000	.33000	800.00	.5940-01	.4820-01	.7060-01	.9158	.2158-02	.3159-02	.4250	2.572	543.3
34	78.000	.33500	801.00	.6290-01	.5100-01	.7470-01	.9158	.2283-02	.3344-02	.4490	2.718	543.5
34	78.000	.34000	802.00	.5900-01	.4800-01	.7010-01	.9158	.2147-02	.3139-02	.4230	2.565	542.8
34	78.000	.34500	803.00	.5820-01	.4730-01	.6910-01	.9158	.2116-02	.3094-02	.4170	2.535	542.8
34	78.000	.35000	804.00	.5700-01	.4630-01	.6770-01	.9158	.2073-02	.3031-02	.4090	2.484	542.8
34	78.000	.35500	805.00	.5790-01	.4710-01	.6880-01	.9158	.2106-02	.3077-02	.4160	2.528	542.5
34	78.000	.36000	806.00	.5240-01	.4260-01	.6220-01	.9158	.1904-02	.2785-02	.3750	2.287	542.9
34	78.000	.36500	807.00	.6100-01	.4950-01	.7240-01	.9158	.2216-02	.3239-02	.4380	2.674	542.6
34	78.000	.37000	808.00	.5600-01	.4550-01	.6650-01	.9158	.2038-02	.2978-02	.4020	2.464	542.6
34	78.000	.37500	809.00	.5840-01	.4740-01	.6940-01	.9158	.2123-02	.3104-02	.4190	2.564	542.9
34	78.000	.38000	810.00	.5650-01	.4590-01	.6710-01	.9158	.2053-02	.3002-02	.4050	2.492	543.0
34	78.000	.39000	811.00	.5000-01	.4060-01	.5940-01	.9158	.1316-02	.2658-02	.3580	2.208	543.2
34	78.000	.40000	812.00	.5310-01	.4320-01	.6320-01	.9158	.1931-02	.2826-02	.3800	2.347	543.3
42	90.000	.40000-01	985.00	.1961	.1567	.1821	.9653	.7012-02	.8149-02	1.292	8.367	556.1
42	90.000	.50000-01	986.00	.2001	.1603	.1891	.9617	.7172-02	.8462-02	1.333	8.588	554.5
42	90.000	.60000-01	987.00	.1761	.1398	.1688	.9583	.6256-02	.7554-02	1.124	7.345	560.7
42	90.000	.70000-01	988.00	.2544	.1999	.2478	.9549	.8945-02	.1109-01	1.545	10.27	567.7
42	90.000	.80000-01	989.00	.4014	.3010	.3971	.9516	.1347-01	.1777-01	1.994	13.81	592.4
42	90.000	.10000+00	990.00	.3105	.2426	.3188	.9453	.1085-01	.1427-01	1.837	11.84	571.1
42	90.000	.15000	991.00	.1659	.1309	.1842	.9315	.5852-02	.8241-02	1.023	7.440	565.6
34	90.000	.23000	813.00	.5420-01	.4400-01	.6410-01	.9163	.1969-02	.2870-02	.3880	2.829	542.8
34	90.000	.2-000	814.00	.4480-01	.3640-01	.5350-01	.9152	.1628-02	.2395-02	.3190	2.583	544.2
34	90.000	.27000	816.00	.4330-01	.3500-01	.5190-01	.9152	.1566-02	.2324-02	.3010	2.142	547.6
34	90.000	.29000	817.00	.4370-01	.3540-01	.5210-01	.9152	.1585-02	.2331-02	.3110	1.934	544.0
34	90.000	.30000	818.00	.5540-01	.4490-01	.6610-01	.9152	.2010-02	.2958-02	.3940	2.409	544.2
34	90.000	.31000	819.00	.5870-01	.4760-01	.6990-01	.9152	.2131-02	.3129-02	.4200	2.548	543.2
34	90.000	.32000	820.00	.5950-01	.4830-01	.7090-01	.9152	.2162-02	.3172-02	.4270	2.585	542.8
34	90.000	.32500	821.00	.5650-01	.4600-01	.6730-01	.9152	.2057-02	.3012-02	.4070	2.461	542.1
34	90.000	.33000	822.00	.5720-01	.4650-01	.6810-01	.9152	.2082-02	.3048-02	.4130	2.501	541.9
34	90.000	.33500	823.00	.5450-01	.4430-01	.6480-01	.9152	.1983-02	.2899-02	.3940	2.394	541.5
34	90.000	.34000	824.00	.5610-01	.4570-01	.6680-01	.9152	.2044-02	.2988-02	.4060	2.456	541.4
34	90.000	.34500	825.00	.5600-01	.4560-01	.6670-01	.9152	.2041-02	.2984-02	.4050	2.457	541.5
34	90.000	.35000	826.00	.5480-01	.4460-01	.6520-01	.9152	.1994-02	.2916-02	.3960	2.401	541.4
34	90.000	.36000	828.00	.5030-01	.4100-01	.5990-01	.9152	.1833-02	.2681-02	.3630	2.197	541.8
34	90.000	.37000	830.00	.5180-01	.4220-01	.6160-01	.9152	.1888-02	.2758-02	.3760	2.284	541.1

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OF POOR QUALITY

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F09)

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
34	90.000	.37500	831.00	.5260-01	.4280-01	.6250-01	.9152	.1915-02	.2796-02	.3820	2.333	540.8
34	90.000	.38000	832.00	.5050-01	.4110-01	.6000-01	.9152	.1838-02	.2686-02	.3650	2.234	541.2
34	90.000	.39000	833.00	.4560-01	.3710-01	.5430-01	.9152	.1662-02	.2430-02	.3300	2.038	541.6
34	90.000	.40000	834.00	.5180-01	.4220-01	.6170-01	.9152	.1887-02	.2760-02	.3750	2.321	541.6
34	90.000	.50000	835.00	.4880-01	.3950-01	.5840-01	.9152	.1768-02	.2613-02	.3430	2.170	546.0
34	90.000	.60000	836.00	.4380-01	.3560-01	.5210-01	.9152	.1595-02	.2333-02	.3170	2.114	541.6
34	90.000	.70000	837.00	.4530-01	.3650-01	.5430-01	.9152	.1634-02	.2430-02	.3130	2.202	548.5
34	90.000	.80000	838.00	.4310-01	.3480-01	.5180-01	.9152	.1556-02	.2317-02	.2970	1.845	549.0
34	90.000	.90000	839.00	.1980-01	.1580-01	.2410-01	.9152	.7073-03	.1078-02	.1290	.8220	557.4
34	112.50	.23000	840.00	.4140-01	.3380-01	.4930-01	.9148	.1512-02	.2205-02	.3030	2.454	539.5
34	112.50	.25000	841.00	.2160-01	.1760-01	.2570-01	.9139	.7874-03	.1151-02	.1590	1.236	538.5
34	112.50	.27000	842.00	.2060-01	.1680-01	.2460-01	.9139	.7499-03	.1100-02	.1500	1.053	540.0
34	112.50	.30000	843.00	.4930-01	.4020-01	.5900-01	.9139	.1798-02	.2641-02	.3590	2.140	540.6
34	112.50	.33000	844.00	.4560-01	.3720-01	.5440-01	.9139	.1664-02	.2435-02	.3350	2.025	539.0
34	112.50	.35000	845.00	.4480-01	.3650-01	.5340-01	.9139	.1635-02	.2391-02	.3300	2.029	538.5
34	112.50	.37000	846.00	.4440-01	.3620-01	.5300-01	.9139	.1620-02	.2371-02	.3260	2.016	539.0
34	112.50	.40000	847.00	.4220-01	.3450-01	.5040-01	.9139	.1542-02	.2255-02	.3110	1.945	538.6
34	112.50	.45000	848.00	.4350-01	.3550-01	.5190-01	.9139	.1587-02	.2323-02	.3190	2.015	538.9
34	112.50	.50000	849.00	.4230-01	.3440-01	.5070-01	.9139	.1541-02	.2270-02	.3060	1.972	541.7
34	112.50	.55000	850.00	.3360-01	.2740-01	.4030-01	.9139	.1226-02	.1802-02	.2440	1.635	541.0
34	112.50	.60000	851.00	.4010-01	.3280-01	.4790-01	.9139	.1466-02	.2146-02	.2950	1.983	539.0
34	112.50	.65000	852.00	.3950-01	.3220-01	.4720-01	.9139	.1442-02	.2114-02	.2890	1.973	539.7
34	112.50	.70000	853.00	.3950-01	.3200-01	.4760-01	.9139	.1433-02	.2129-02	.2790	1.963	545.1
34	112.50	.75000	854.00	.2860-01	.2320-01	.3440-01	.9139	.1037-02	.1541-02	.2020	1.311	545.3
34	112.50	.80000	855.00	.3700-01	.3010-01	.4440-01	.9139	.1345-02	.1985-02	.2660	1.732	542.5
34	112.50	.90000	856.00	.1770-01	.1430-01	.2140-01	.9139	.6396-03	.9570-03	.1230	.7960	548.0
34	125.40	.84000	857.00	.2780-01	.2270-01	.3330-01	.9133	.1014-02	.1488-02	.2040	1.265	538.9
34	125.40	.85000	858.00	.2860-01	.2330-01	.3430-01	.9133	.1045-02	.1535-02	.2100	1.308	539.4
34	125.40	.86000	859.00	.2980-01	.2430-01	.3570-01	.9133	.1085-02	.1598-02	.2180	1.369	539.8
34	125.40	.87000	860.00	.2910-01	.2370-01	.3500-01	.9133	.1062-02	.1564-02	.2120	1.339	540.2
34	125.40	.88000	861.00	.2750-01	.2240-01	.3310-01	.9133	.1002-02	.1479-02	.1990	1.257	541.2
34	125.40	.89000	862.00	.2980-01	.2420-01	.3580-01	.9133	.1082-02	.1603-02	.2130	1.352	542.8
34	125.40	.90000	863.00	.2430-01	.1970-01	.2920-01	.9133	.8821-03	.1307-02	.1740	1.108	542.8
34	125.40	.91000	864.00	.1140-01	.9300-02	.1370-01	.9133	.4141-03	.6119-03	.8200-01	.5990	541.7
34	125.40	.92600	865.00	.1400-01	.1130-01	.1690-01	.9133	.5074-03	.7556-03	.9900-01	.7190	544.8
34	129.30	.80000	866.00	.2950-01	.2400-01	.3540-01	.9132	.1076-02	.1585-02	.2150	1.356	540.1
34	129.30	.81000	867.00	.2220-01	.1810-01	.2660-01	.9132	.8094-03	.1190-02	.1620	1.019	539.4
34	129.30	.82000	868.00	.2450-01	.2000-01	.2940-01	.9132	.8951-03	.1316-02	.1800	1.133	538.7
34	129.30	.83000	869.00	.2660-01	.2170-01	.3180-01	.9132	.9706-03	.1424-02	.1960	1.233	538.3
34	135.00	.40000-01	870.00	.1716	.1366	.1664	.9581	.6113-02	.7448-02	1.109	7.085	558.7
34	135.00	.50000-01	871.00	.1712	.1371	.1690	.9526	.6137-02	.7563-02	1.143	7.281	553.9
34	135.00	.60000-01	872.00	.1657	.1323	.1664	.9492	.5918-02	.7444-02	1.086	7.174	556.7
34	135.00	.70000-01	873.00	.3249	.2484	.3332	.9459	.1111-01	.1491-01	1.746	11.67	583.0

IH41(AEDC V41A-A4A) TI SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TC) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
34	135.00	.10000+00	875.00	.2384	.1893	.2558	.9369	.8473-02	.1145-01	1.523	9.924	560.4
34	135.00	.15000	876.00	.1249	.1001	.1428	.9246	.4481-02	.6389-02	.8370	6.105	553.3
34	135.00	.20000	877.00	.5970-01	.4860-01	.7050-01	.9162	.2177-02	.3155-02	.4350	2.945	540.1
34	135.00	.35000	878.00	.3970-01	.3250-01	.4750-01	.9131	.1456-02	.2126-02	.2970	1.855	536.1
34	135.00	.40000	879.00	.3320-01	.2720-01	.3970-01	.9131	.1217-02	.1778-02	.2480	1.582	536.1
34	135.00	.50000	880.00	.2730-01	.2230-01	.3270-01	.9131	.9961-03	.1462-02	.2010	1.398	538.1
34	135.00	.55000	881.00	.2420-01	.1980-01	.2890-01	.9131	.8842-03	.1295-02	.1790	1.200	537.3
34	135.00	.60000	882.00	.2850-01	.2330-01	.3410-01	.9131	.1044-02	.1526-02	.2130	1.438	536.3
34	135.00	.65000	883.00	.2870-01	.2350-01	.3430-01	.9131	.1050-02	.1537-02	.2140	1.465	536.8
34	135.00	.70000	884.00	.2550-01	.2080-01	.3070-01	.9131	.9296-03	.1372-02	.1860	1.323	540.5
34	135.00	.75000	885.00	.2040-01	.1660-01	.2450-01	.9131	.7416-03	.1097-02	.1470	.9310	541.5
34	135.00	.80000	886.00	.2110-01	.1720-01	.2530-01	.9131	.7713-03	.1132-02	.1560	.9830	538.1
34	135.00	.84000	887.00	.2240-01	.1830-01	.2680-01	.9131	.8177-03	.1200-02	.1650	1.043	538.0
42	135.00	.85000	888.00	.2920-01	.2380-01	.3500-01	.9131	.1066-02	.1566-02	.2150	1.369	538.7
42	135.00	.86000	889.00	.2590-01	.2120-01	.3110-01	.9131	.9478-03	.1392-02	.1910	1.213	538.7
42	135.00	.87000	890.00	.2300-01	.1880-01	.2760-01	.9131	.8409-03	.1236-02	.1690	1.081	538.9
42	135.00	.88000	891.00	.2640-01	.2150-01	.3170-01	.9131	.9636-03	.1418-02	.1940	1.242	539.5
42	135.00	.89000	892.00	.2680-01	.2190-01	.3220-01	.9131	.9791-03	.1442-02	.1960	1.282	539.8
42	135.00	.90000	893.00	.2160-01	.1760-01	.2590-01	.9131	.7873-03	.1159-02	.1580	1.045	539.5
42	135.00	.91000	894.00	.9200-02	.7500-02	.1110-01	.9131	.3376-03	.4959-03	.6800-01	.4990	538.7
42	135.00	.92600	895.00	.1370-01	.1110-01	.1640-01	.9131	.4978-03	.7360-03	.9900-01	.7220	541.5
42	135.00	.95000	896.00	.2740-01	.2230-01	.3300-01	.9131	.9979-03	.1478-02	.1980	1.432	542.1
42	135.00	.95000	896.00	.2740-01	.2230-01	.3300-01	.9131	.1168-02	.1708-02	.2380	1.537	536.7
42	142.30	.42000	897.00	.3190-01	.2610-01	.3820-01	.9130	.1203-02	.1758-02	.2460	1.543	536.2
42	142.30	.43500	898.00	.3280-01	.2690-01	.3930-01	.9130	.1092-02	.1596-02	.2230	1.466	536.4
42	142.30	.45000	899.00	.2980-01	.2440-01	.3570-01	.9130	.1028-02	.1506-02	.2080	1.394	537.7
42	142.30	.50000	900.00	.2810-01	.2300-01	.3370-01	.9130	.1030-02	.1505-02	.2100	1.404	536.2
42	142.30	.60000	901.00	.2810-01	.2300-01	.3360-01	.9130	.8646-03	.1275-02	.1730	1.184	540.3
42	142.30	.70000	902.00	.2370-01	.1930-01	.2850-01	.9130	.9172-03	.1348-02	.1850	1.180	538.9
42	142.30	.80000	903.00	.2510-01	.2050-01	.3010-01	.9130	.9003-03	.1326-02	.1810	1.147	539.6
42	142.30	.87000	904.00	.2470-01	.2010-01	.2960-01	.9130	.1091-02	.1592-02	.2230	1.447	535.7
42	154.98	.42000	905.00	.2980-01	.2440-01	.3560-01	.9130	.9969-03	.1455-02	.2040	1.330	535.8
42	154.98	.43500	906.00	.2720-01	.2230-01	.3250-01	.9130	.1009-02	.1473-02	.2060	1.353	535.9
42	154.98	.45000	907.00	.2750-01	.2250-01	.3290-01	.9130	.4437-03	.6494-03	.9000-01	.6490	537.1
42	154.98	.50000	908.00	.1210-01	.9900-02	.1450-01	.9130	.1707-02	.2534-02	.3370	2.455	543.0
42	154.98	.93500	913.00	.4700-01	.3820-01	.5660-01	.9130	.1344-02	.1995-02	.2650	1.915	543.0
42	154.98	.94500	914.00	.3700-01	.3000-01	.4460-01	.9130	.7739-02	.1035-01	1.336	9.193	567.7
42	157.50	.70000-01	918.00	.2202	.1730	.2313	.9412	.1040-01	.1437-01	1.726	11.62	574.5
42	157.50	.80000-01	919.00	.2993	.2325	.3211	.9382	.7381-02	.1019-01	1.336	8.872	559.3
42	157.50	.10000+00	920.00	.2073	.1649	.2277	.9326	.1721-02	.2502-02	.3500	2.340	537.2
42	157.50	.20000	922.00	.4700-01	.3850-01	.5590-01	.9144	.9198-03	.1340-02	.1890	1.239	535.1
42	157.50	.42000	923.00	.2510-01	.2060-01	.3000-01	.9130	.8837-03	.1287-02	.1820	1.196	534.9
42	157.50	.43500	924.00	.2410-01	.1970-01	.2880-01	.9130	.8704-03	.1268-02	.1790	1.188	534.9
42	157.50	.45000	925.00	.2370-01	.1950-01	.2830-01	.9130					

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS) (RV7F09)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
42	157.50	.85000	926.00	.1410-01	.1150-01	.1690-01	.9130	.5151-03	.7562-03	.1040	.6760	538.3
42	157.50	.86000	927.00	.1550-01	.1270-01	.1860-01	.9130	.5676-03	.8339-03	.1140	.7460	538.7
42	157.50	.87000	928.00	.1440-01	.1180-01	.1730-01	.9130	.5259-03	.7728-03	.1060	.6930	538.8
42	157.50	.88000	929.00	.1720-01	.1410-01	.2070-01	.9130	.6294-03	.9263-03	.1260	.8310	539.4
42	157.50	.89000	930.00	.2150-01	.1750-01	.2590-01	.9130	.7849-03	.1157-02	.1570	1.038	540.1
42	157.50	.90000	931.00	.1990-01	.1620-01	.2390-01	.9130	.7254-03	.1069-02	.1450	.9830	540.0
42	157.50	.91000	932.00	.1090-01	.8900-02	.1310-01	.9130	.3978-03	.5854-03	.8000-01	.5870	539.4
42	157.50	.92600	933.00	.2390-01	.1950-01	.2880-01	.9130	.8709-03	.1289-02	.1730	1.266	541.7
42	163.12	.41500	934.00	.2240-01	.1840-01	.2680-01	.9130	.8226-03	.1197-02	.1690	1.105	534.5
42	163.12	.42000	935.00	.2440-01	.2000-01	.2910-01	.9130	.8949-03	.1302-02	.1840	1.214	534.4
42	163.12	.43000	937.00	.2370-01	.1940-01	.2830-01	.9130	.8701-03	.1266-02	.1790	1.183	534.6
42	163.12	.44000	938.00	.2250-01	.1840-01	.2680-01	.9130	.8244-03	.1200-02	.1700	1.117	534.5
42	163.12	.44500	939.00	.2050-01	.1680-01	.2450-01	.9130	.7518-03	.1094-02	.1550	1.034	534.6
42	163.12	.45000	940.00	.2050-01	.1680-01	.2440-01	.9130	.7512-03	.1094-02	.1550	1.032	534.7
42	163.12	.50000	941.00	.1930-01	.1580-01	.2310-01	.9130	.7083-03	.1033-02	.1450	.9890	535.6
42	163.12	.60000	942.00	.1840-01	.1510-01	.2200-01	.9130	.6763-03	.9861-03	.1390	.9000	535.3
42	163.12	.70000	943.00	.1480-01	.1210-01	.1780-01	.9130	.5411-03	.7960-03	.1090	.7500	539.2
42	163.12	.80000	944.00	.1290-01	.1060-01	.1550-01	.9130	.4725-03	.6931-03	.9600-01	.6270	538.0
42	168.00	.35000	945.00	.1750-01	.1440-01	.2080-01	.9130	.6433-03	.9530-03	.1330	.8520	532.9
42	168.00	.36000	946.00	.2040-01	.1680-01	.2430-01	.9130	.7499-03	.1088-02	.1560	.9960	533.0
42	168.00	.37000	947.00	.2050-01	.1680-01	.2440-01	.9130	.7518-03	.1091-02	.1560	.9990	533.4
42	168.00	.37500	948.00	.2100-01	.1720-01	.2500-01	.9130	.7708-03	.1119-02	.1590	1.024	533.5
42	168.00	.38500	950.00	.1890-01	.1550-01	.2250-01	.9130	.6936-03	.1007-02	.1430	.9310	533.6
42	168.00	.39000	951.00	.2180-01	.1790-01	.2600-01	.9130	.8008-03	.1162-02	.1660	1.083	533.2
42	168.00	.39500	952.00	.2220-01	.1820-01	.2640-01	.9130	.8142-03	.1183-02	.1680	1.082	533.9
42	168.00	.40000	953.00	.1590-01	.1300-01	.1900-01	.9130	5838-03	.8491-03	.1200	.7880	534.2
42	168.00	.40500	954.00	.2220-01	.1820-01	.2650-01	.9130	.8166-03	.1187-02	.1690	1.107	533.9
42	168.00	.41000	955.00	.2070-01	.1700-01	.2470-01	.9130	.7589-03	.1105-02	.1560	1.025	534.6
42	168.00	.41500	956.00	.1050-01	.8600-02	.1260-01	.9130	.3864-03	.5623-03	.8000-01	.5240	534.5
42	168.00	.42000	957.00	.2110-01	.1740-01	.2520-01	.9130	.7766-03	.1128-02	.1600	1.060	533.8
42	168.00	.42500	958.00	.2270-01	.1860-01	.2710-01	.9130	.8324-03	.1211-02	.1710	1.132	534.5
42	168.00	.43000	959.00	.2110-01	.1730-01	.2520-01	.9130	.7746-03	.1126-02	.1600	1.052	534.1
42	169.00	.44000	960.00	.2410-01	.1980-01	.2870-01	.9130	.8855-03	.1288-02	.1830	1.211	533.5
42	169.00	.44500	961.00	.2430-01	.1990-01	.2900-01	.9130	.8926-03	.1297-02	.1840	1.218	533.8
42	168.00	.45000	962.00	.2120-01	.1740-01	.2520-01	.9130	.7768-03	.1130-02	.1600	1.064	534.2
42	168.00	.45500	963.00	.1980-01	.1630-01	.2370-01	.9130	.7275-03	.1059-02	.1500	.9940	534.6
42	169.00	.46000	964.00	.2290-01	.1880-01	.2740-01	.9130	.8426-03	.1224-02	.1740	1.164	533.8
42	168.00	.47000	965.00	.1990-01	.1630-01	.2370-01	.9130	.7283-03	.1060-02	.1500	1.005	534.5
42	168.00	.48000	966.00	.1820-01	.1490-01	.2170-01	.9130	.6681-03	.9732-03	.1370	.9280	534.9
42	168.00	.49000	967.00	.1840-01	.1510-01	.2190-01	.9130	.6744-03	.9811-03	.1390	.9400	534.3
42	169.00	.49000	967.00	.1310-01	.1070-01	.1580-01	.9130	.4807-03	.7049-03	.9700-01	.6340	537.9
42	169.00	.95000	968.00	.1530-01	.1250-01	.1830-01	.9130	.5592-03	.8208-03	.1130	.7390	538.2
42	169.00	.86000	969.00	.2030-01	.1660-01	.2430-01	.9130	.7411-03	.1089-02	.1490	.9780	538.9
42	168.00	.87000	970.00									

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F09)

IHN1(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
42	163.00	.88000	971.00	.2310-01	.1880-01	.2770-01	.9130	.8422-03	.1239-02	.1690	1.112	539.4
42	168.00	.89000	972.00	.3030-01	.2470-01	.3640-01	.9130	.1105-02	.1628-02	.2220	1.477	539.8
42	168.00	.90000	973.00	.3830-01	.3120-01	.4600-01	.9130	.1397-02	.2057-02	.2800	1.914	539.7
42	168.00	.91000	974.00	.2870-01	.2340-01	.3450-01	.9130	.1049-02	.1542-02	.2110	1.548	538.8
42	168.00	.92600	975.00	.3430-01	.2790-01	.4130-01	.9130	.1250-02	.1849-02	.2490	1.808	541.4
42	168.00	.95000	976.00	.2680-01	.2180-01	.3240-01	.9130	.9755-03	.1449-02	.1920	1.388	543.2
32	180.00	.40000-01	600.00	.1503	.1207	.1526	.9470	.5405-02	.6830-02	1.018	6.524	553.3
32	180.00	.50000-01	601.00	.1340	.1083	.1382	.9436	.4850-02	.6188-02	.9380	6.046	548.2
32	180.00	.60000-01	602.00	.1221	.9850-01	.1281	.9404	.4410-02	.5733-02	.8460	5.624	549.9
32	180.00	.70000-01	603.00	.2058	.1622	.2209	.9373	.7260-02	.9887-02	1.271	8.586	566.6
32	180.00	.80000-01	604.00	.3032	.2354	.3332	.9344	.1054-01	.1492-01	1.747	11.20	575.9
32	180.00	.10000+00	605.00	.1794	.1435	.2004	.9291	.6425-02	.8972-02	1.191	8.508	556.3
32	180.00	.15000	606.00	.7930-01	.6460-01	.9260-01	.9187	.2890-02	.4145-02	.5750	4.192	542.6
32	180.00	.20000	607.00	.3440-01	.2830-01	.4090-01	.9133	.1267-02	.1830-02	.2650	1.742	532.5
32	180.00	.21000	608.00	.2480-01	.2040-01	.2950-01	.9130	.9150-03	.1321-02	.1920	1.338	531.7
32	180.00	.22000	609.00	.1880-01	.1550-01	.2240-01	.9130	.6938-03	.1002-02	.1460	1.091	531.9
32	180.00	.30000	610.00	.2200-01	.1819-01	.2620-01	.9130	.8117-03	.1172-02	.1700	1.175	531.9
32	180.00	.35000	611.00	.9000-02	.7400-02	.1070-01	.9130	.3326-03	.4791-03	.7000-01	.4710	530.7
32	180.00	.36000	612.00	.9500-02	.7900-02	.1130-01	.9130	.3520-03	.5072-03	.7400-01	.5030	530.7
32	180.00	.37000	613.00	.7300-02	.6000-02	.8700-02	.9130	.2693-03	.3879-03	.5700-01	.3850	530.6
32	180.00	.37500	614.00	.1020-01	.8400-02	.1210-01	.9130	.3751-03	.5408-03	.7900-01	.5350	531.0
32	180.00	.38000	615.00	.1360-01	.1120-01	.1620-01	.9130	.5032-03	.7262-03	.1060	7160	531.6
32	180.00	.38500	616.00	.1200-01	.9900-02	.1430-01	.9130	.4437-03	.6398-03	.9300-01	.6330	531.1
32	180.00	.39000	617.00	.1360-01	.1120-01	.1620-01	.9130	.5022-03	.7243-03	.1060	.7140	531.2
32	180.00	.39500	618.00	.1440-01	.1180-01	.1710-01	.9130	.5298-03	.7638-03	.1120	.7580	531.1
32	180.00	.40000	619.00	.1560-01	.1280-01	.1850-01	.9130	.5737-03	.8277-03	.1210	.8150	531.4
32	180.00	.40500	620.00	.1580-01	.1300-01	.1880-01	.9130	.5835-03	.8425-03	.1220	.8290	531.8
32	180.00	.41000	621.00	.1760-01	.1450-01	.2090-01	.9130	.6475-03	.9354-03	.1360	.9190	532.0
32	180.00	.41500	622.00	.1930-01	.1590-01	.2300-01	.9130	.7127-03	.1029-02	.1500	1.010	531.7
32	180.00	.42500	624.00	.1960-01	.1610-01	.2340-01	.9130	.7230-03	.1046-02	.1510	1.020	532.6
32	180.00	.43000	625.00	.1850-01	.1520-01	.2200-01	.9130	.6800-03	.9848-03	.1420	.9600	533.2
32	180.00	.44000	626.00	.1870-01	.1540-01	.2230-01	.9130	.6902-03	.9987-03	.1440	.9760	532.8
32	180.00	.44500	627.00	.1840-01	.1510-01	.2190-01	.9130	.6770-03	.9798-03	.1410	.9650	532.9
32	180.00	.45500	629.00	.1720-01	.1410-01	.2050-01	.9130	.6326-03	.9155-03	.1320	.9160	532.9
32	180.00	.46000	630.00	.1790-01	.1470-01	.2130-01	.9130	.6585-03	.9529-03	.1380	.9310	532.8
32	180.00	.47000	631.00	.1990-01	.1630-01	.2360-01	.9130	.7307-03	.1058-02	.1520	1.031	533.2
32	180.00	.49000	633.00	.1520-01	.1250-01	.1810-01	.9130	.5591-03	.8121-03	.1160	.7950	534.6
32	180.00	.50000	634.00	.1310-01	.1080-01	.1570-01	.9130	.4826-03	.7014-03	.1000+00	.7030	534.8
32	180.00	.55000	635.00	.1160-01	.9500-02	.1390-01	.9130	.4269-03	.6211-03	.8800-01	.5880	535.3
32	180.00	.60000	636.00	.1380-01	.1130-01	.1640-01	.9130	.5060-03	.7334-03	.1050	.6830	533.6
32	180.00	.65000	637.00	.1210-01	.1000-01	.1450-01	.9130	.4465-03	.6485-03	.9200-01	.6020	534.5
32	180.00	.70000	638.00	.9300-02	.7600-02	.1110-01	.9130	.3396-03	.4976-03	.6900-01	.4740	538.5
32	180.00	.80000	640.00	.1020-01	.8400-02	.1220-01	.9130	.3751-03	.5475-03	.7700-01	.4840	536.7

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F09)

IHN1(AEDC V41A-A4A) TI SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
32	180.00	.85000	641.00	.1780-01	.1460-01	.2140-01	.9130	.6540-03	.9559-03	.1340	.8490	537.3
32	180.00	.86000	642.00	.2100-01	.1720-01	.2510-01	.9130	.7689-03	.1125-02	.1570	1.009	537.9
32	180.00	.87000	643.00	.2550-01	.2090-01	.3050-01	.9130	.9347-03	.1370-02	.1900	1.229	538.7
32	180.00	.88000	644.00	.3470-01	.2830-01	.4170-01	.9130	.1269-02	.1865-02	.2560	1.673	539.8
32	180.00	.89000	645.00	.2880-01	.2350-01	.3460-01	.9130	.1052-02	.1548-02	.2120	1.400	540.2
32	180.00	.90000	646.00	.2310-01	.1880-01	.2770-01	.9130	.8433-03	.1239-02	.1700	1.148	539.8
32	180.00	.92500	648.00	.2970-01	.2420-01	.3570-01	.9130	.1081-02	.1600-02	.2150	1.574	542.5
32	180.00	.95000	649.00	.2610-01	.2120-01	.3150-01	.9130	.9487-03	.1409-02	.1870	1.356	544.1
32	180.00	.35000	650.00	.4800-02	.3900-02	.5600-02	.9130	.1752-03	.2528-03	.3700-01	.2490	531.5
32	191.25	.36000	651.00	.8400-02	.6900-02	.1000-01	.9130	.3093-03	.4462-03	.6500-01	.4420	531.4
32	191.25	.37000	652.00	.8200-02	.6800-02	.9800-02	.9130	.3028-03	.4370-03	.6400-01	.4310	531.5
32	191.25	.37500	653.00	.8200-02	.6800-02	.9800-02	.9130	.3033-03	.4377-03	.6400-01	.4330	531.5
32	191.25	.38000	654.00	.8500-02	.7000-02	.1010-01	.9130	.3143-03	.4534-03	.6600-01	.4490	531.4
32	191.25	.38500	655.00	.8100-02	.6700-02	.9700-02	.9130	.3000-03	.4328-03	.6300-01	.4280	531.5
32	191.25	.39000	656.00	.8900-02	.7300-02	.1060-01	.9130	.3284-03	.4738-03	.6900-01	.4690	531.5
32	191.25	.39500	657.00	.1090-01	.9000-02	.1300-01	.9130	.4036-03	.5817-03	.8500-01	.5780	530.9
32	191.25	.40000	658.00	.1370-01	.1130-01	.1620-01	.9130	.5044-03	.7271-03	.1060	.7240	531.0
32	191.25	.40500	659.00	.1100-01	.9100-02	.1310-01	.9130	.4059-03	.5855-03	.8500-01	.5820	531.2
32	191.25	.41000	660.00	.1020-01	.8400-02	.1210-01	.9130	.3747-03	.5410-03	.7900-01	.5340	531.7
32	191.25	.41500	661.00	.1160-01	.9600-02	.1390-01	.9130	.4283-03	.6187-03	.9000-01	.6080	532.0
32	191.25	.42000	662.00	.1270-01	.1040-01	.1510-01	.9130	.4671-03	.6754-03	.9800-01	.6640	532.4
32	191.25	.42500	663.00	.1260-01	.1030-01	.1500-01	.9130	.4633-03	.6698-03	.9700-01	.6610	532.4
32	191.25	.43000	664.00	.1340-01	.1110-01	.1600-01	.9130	.4950-03	.7158-03	.1040	.7120	532.5
32	191.25	.44000	665.00	.1460-01	.1200-01	.1740-01	.9130	.5385-03	.7795-03	.1120	.7680	533.0
32	191.25	.45000	666.00	.1520-01	.1250-01	.1820-01	.9130	.5608-03	.8126-03	.1170	.7970	533.4
32	191.25	.45500	667.00	.1540-01	.1270-01	.1840-01	.9130	.5676-03	.8224-03	.1180	.8070	533.4
32	191.25	.46000	669.00	.1600-01	.1310-01	.1900-01	.9130	.5872-03	.8513-03	.1220	.8270	533.6
32	191.25	.47000	669.00	.1690-01	.1390-01	.2010-01	.9130	.6212-03	.9012-03	.1290	.8860	534.0
32	191.25	.48000	670.00	.2100-01	.1730-01	.2500-01	.9130	.7731-03	.1121-02	.1610	1.104	533.8
32	191.25	.49000	671.00	.1950-01	.1600-01	.2330-01	.9130	.7168-03	.1043-02	.1480	1.011	535.5
32	191.25	.50000	672.00	.1620-01	.1330-01	.1930-01	.9130	.5938-03	.8653-03	.1220	.8530	536.0
32	191.25	.51000	673.00	.1410-01	.1160-01	.1680-01	.9130	.5178-03	.7529-03	.1070	.6900	535.0
32	191.25	.52000	674.00	.1280-01	.1040-01	.1540-01	.9130	.4676-03	.6878-03	.9400-01	.6440	540.1
32	191.25	.53000	676.00	.1480-01	.1210-01	.1770-01	.9130	.5428-03	.7933-03	.1110	.7040	537.3
32	191.25	.54000	677.00	.1720-01	.1410-01	.2060-01	.9130	.6309-03	.9238-03	.1280	.8250	538.1
32	191.25	.55000	678.00	.1950-01	.1600-01	.2350-01	.9130	.7180-03	.1053-02	.1450	.9420	539.0
32	191.25	.56000	679.00	.2420-01	.1970-01	.2900-01	.9130	.8928-03	.1297-02	.1780	1.167	539.7
32	191.25	.57000	680.00	.2530-01	.2060-01	.3040-01	.9130	.9227-03	.1359-02	.1850	1.231	540.7
32	191.25	.58000	681.00	.2050-01	.1670-01	.2460-01	.9130	.7474-03	.1102-02	.1500	1.013	541.1
32	191.25	.59000	682.00	.1990-01	.1650-01	.2390-01	.9130	.7263-03	.1070-02	.1460	.9750	540.3
32	191.25	.60000	683.00	.1680-01	.1370-01	.2020-01	.9130	.6117-03	.9050-03	.1220	.8930	542.5
32	191.25	.92600	684.00	.2490-01	.2010-01	.2990-01	.9130	.9016-03	.1339-02	.1780	1.289	544.1
32	191.25	.95000	684.00	.2750-02	.6400-02	.9200-02	.9130	.2843-03	.4105-03	.6000-01	.4040	531.7
32	197.00	.33000	685.00									

(RV7F09)

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
32	197.00	.34000	686.00	.7300-02	.6000-02	.8700-02	.9130	.2691-03	.3882-03	.5700-01	.3830	531.3
32	197.00	.35000	687.00	.9100-02	.7500-02	.1080-01	.9130	.3352-03	.4834-03	.7100-01	.4780	531.2
32	197.00	.36000	688.00	.7400-02	.6100-02	.8800-02	.9130	.2746-03	.3959-03	.5800-01	.3920	531.1
32	197.00	.37000	689.00	.7600-02	.6300-02	[illegible]00-02	.9130	.2806-03	.4046-03	.5900-01	.4000	531.1
32	197.00	.50000	691.00	.1560-01	.1290-01	.1680-01	.9130	.5785-03	.8429-03	.1190	.8040	535.9
32	197.00	.60000	692.00	.1510-01	.1240-01	.1800-01	.9130	.5538-03	.8040-03	.1150	.7450	534.3
33	197.00	.70000	693.00	.2870-01	.2340-01	.3430-01	.9130	.1049-02	.1537-02	.2130	1.449	538.7
33	197.00	.80000	694.00	.1540-01	.1260-01	.1840-01	.9130	.5637-03	.8239-03	.1150	.7270	537.3
34	197.00	.87000	695.00	.4260-01	.3440-01	.5160-01	.9130	.1539-02	.2312-02	.2960	1.685	546.4
42	197.00	.92600	696.00	.3500-01	.2830-01	.4250-01	.9130	.1266-02	.1901-02	.2440	1.785	546.1
33	209.80	.50000-01	699.00	.1230	.9960-01	.1289	.9403	.4455-02	.5768-02	.8660	5.506	546.0
33	209.80	.70000-01	700.00	.1387	.1113	.1505	.9341	.4981-02	.6732-02	.9340	6.295	552.9
33	209.80	.10000+00	701.00	.1683	.1349	.1908	.9263	.6038-02	.8538-02	1.126	7.150	553.9
33	209.80	.15000	702.00	.6740-01	.5490-01	.7950-01	.9169	.2456-02	.3557-02	.4890	3.504	541.5
33	209.80	.20000	703.00	.2330-01	.1920-01	.2770-01	.9130	.8579-03	.1240-02	.1790	1.204	531.4
33	209.80	.30000	704.00	.5800-02	.4800-02	.6900-02	.9130	.2147-03	.3107-03	.4500-01	.3190	532.0
33	209.80	.35000	705.00	.6100-02	.5000-02	.7200-02	.9130	.2236-03	.3228-03	.4700-01	.3240	530.6
33	209.80	.37500	706.00	.4000-02	.3300-02	.4700-02	.9130	.1459-03	.2104-03	.3100-01	.2120	530.3
33	209.80	.50000	707.00	.1140-01	.9300-02	.1360-01	.9130	.4170-03	.6068-03	.8600-01	.5920	534.4
33	209.80	.60000	708.00	.1150-01	.9400-02	.1370-01	.9130	.4208-03	.6121-03	.8700-01	.5560	534.3
33	209.80	.70000	709.00	.1940-01	.1590-01	.2330-01	.9130	.7096-03	.1042-02	.1430	.9170	538.5
33	209.80	.80000	710.00	.1550-01	.1270-01	.1860-01	.9130	.5669-03	.8310-03	.1150	.7190	537.7
33	209.80	.87000	711.00	.1800-01	.1470-01	.2160-01	.9130	.6571-03	.9672-03	.1320	.8370	539.5
33	209.80	.92600	712.00	.2030-01	.1650-01	.2440-01	.9130	.7391-03	.1093-02	.1470	1.073	541.3
33	217.70	.50000-01	715.00	.1030	.8360-01	.1082	.9398	.3740-02	.4840-02	.7330	4.786	544.4
33	217.70	.70000-01	716.00	.1428	.1139	.1556	.9337	.5095-02	.6964-02	.9320	6.324	557.5
33	217.70	.10000+00	717.00	.1575	.1265	.1787	.9259	.5661-02	.7995-02	1.064	6.879	552.5
33	217.70	.15000	718.00	.6540-01	.5330-01	.7710-01	.9166	.2383-02	.3451-02	.4750	3.489	540.9
33	217.70	.20000	719.00	.2360-01	.1940-01	.2800-01	.9130	.8679-03	.1253-02	.1820	1.237	530.6
33	217.70	.30000	720.00	.5700-02	.4700-02	.6800-02	.9130	.2114-03	.3060-03	.4400-01	.3170	532.1
33	217.70	.35000	721.00	.5000-02	.4100-02	.5900-02	.9130	.1828-03	.2639-03	.3800-01	.2680	530.6
33	217.70	.37500	722.00	.4800-02	.4000-02	.5700-02	.9130	.1772-03	.2557-03	.3700-01	.2600	530.7
33	217.70	.50000	723.00	.6600-02	.5400-02	.7900-02	.9130	.2419-03	.3517-03	.5000-01	.3470	534.0
33	217.70	.60000	724.00	.2150-01	.1760-01	.2570-01	.9130	.7891-03	.1149-02	.1620	1.044	534.6
33	217.70	.70000	725.00	.1840-01	.1500-01	.2200-01	.9130	.6704-03	.9859-03	.1350	.6610	539.1
33	217.70	.80000	726.00	.1610-01	.1310-01	.1930-01	.9130	.5877-03	.8630-03	.1190	.7490	538.4
33	217.70	.87000	727.00	.1960-01	.1600-01	.2350-01	.9130	.7147-03	.1053-02	.1430	.9190	539.9
33	217.70	.92600	728.00	.1380-01	.1120-01	.1660-01	.9130	.5007-03	.7415-03	.9900-01	.7240	542.0

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = 10.00 BETA = .0000 GRIT = 3.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
26	5.500	4.939	10.00	.0000	.0000	177.8	.1910	745.0	105.7	4.047	2771.	.1517-03
27	5.500	4.958	10.02	.0000	.0000	178.0	.1910	744.0	105.5	4.051	2768.	.1521-03
28	5.500	4.962	10.01	.0000	.0000	177.7	.1910	743.0	105.4	4.045	2766.	.1521-03
45	5.500	4.947	9.990	.0000	.0000	177.7	.1910	744.0	105.6	4.045	2769.	.1518-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
26	.8510-07	.4479-01	.1367-01
27	.8494-07	.4480-01	.1365-01
28	.8482-07	.4476-01	.1365-01
45	.8498-07	.4477-01	.1366-01

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
45	.00000	.12000-01	977.00	.5729	.4111	.4638	.9799	.1840-01	.2076-01	2.423	14.87	612.5
45	.00000	.15100-01	978.00	.5365	.3968	.4477	.9782	.1776-01	.2004-01	2.537	16.90	601.3
45	.00000	.18000-01	979.00	.4693	.3506	.3964	.9770	.1570-01	.1774-01	2.324	15.67	596.1
45	.00000	.24000-01	980.00	.4124	.3136	.3564	.9750	.1404-01	.1595-01	2.180	14.31	583.8
45	.00000	.33000-01	981.00	.3531	.2724	.3109	.9729	.1219-01	.1392-01	1.985	12.51	581.3
27	.00000	.40000-01	737.00	.2243	.1775	.2007	.9723	.7951-02	.8993-02	1.416	9.154	565.6
27	.00000	.45000-01	738.00	.2297	.1822	.2075	.9705	.8160-02	.9296-02	1.465	9.618	564.2
27	.00000	.60000-01	739.00	.2083	.1646	.1930	.9653	.7373-02	.8645-02	1.294	8.600	568.3
27	.00000	.70000-01	740.00	.3235	.2488	.3019	.9619	.1114-01	.1353-01	1.794	11.91	582.8
27	.00000	.80000-01	741.00	.4275	.3181	.4037	.9586	.1425-01	.1809-01	2.070	14.67	598.5
27	.00000	.10000+00	742.00	.3518	.2723	.3475	.9521	.1220-01	.1557-01	2.005	13.18	579.4
27	.00000	.12500	743.00	.2646	.2027	.2737	.9445	.9080-02	.1226-01	1.444	10.30	584.7
27	.00000	.15000	744.00	.2118	.1655	.2277	.9375	.7417-02	.1020-01	1.264	8.674	573.3
27	.00000	.17500	745.00	.1709	.1117	.1563	.9311	.5006-02	.7003-02	.9000	6.703	564.1
27	.00000	.20000	746.00	.1051	.9410-01	.1199	.9254	.3767-02	.5372-02	.6990	4.974	558.1
27	.00000	.21500	747.00	.9230-01	.7410-01	.1068	.9224	.3318-02	.4785-02	.6240	4.308	555.6

DATE 03 JUN 75

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F1D)

(HN1(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW D.D. R
27	.00000	.23000	748.00	.7580-01	.6080-01	.8910-01	.9198	.2724-02	.3990-02	.5120	3.768	555.7
27	.00000	.24000	749.00	.6810-01	.5470-01	.8080-01	.9182	.2449-02	.3618-02	.4610	3.463	555.4
27	.00000	.25000	750.00	.3810-01	.3070-01	.4500-01	.9182	.1376-02	.2015-02	.2640	2.131	551.8
27	.00000	.30000	751.00	.7450-01	.5970-01	.8830-01	.9182	.2677-02	.3955-02	.5040	3.292	555.5
27	.00000	.35000	752.00	.7360-01	.5920-01	.8710-01	.9182	.2651-02	.3902-02	.5030	3.170	553.9
27	.00000	.40000	753.00	.7180-01	.5750-01	.8530-01	.9182	.2577-02	.3822-02	.4810	3.079	557.0
27	.00000	.50000	754.00	.6690-01	.5260-01	.8100-01	.9182	.2355-02	.3631-02	.4080	2.638	570.5
27	.00000	.60000	755.00	.5530-01	.4330-01	.6710-01	.9182	.1940-02	.3006-02	.3330	2.109	572.1
27	.00000	.70000	756.00	.4250-01	.3290-01	.5230-01	.9182	.1472-02	.2344 02	.2410	1.564	580.1
27	.00000	.80000	757.00	.4470-01	.3500-01	.5430-01	.9182	.1569-02	.2434-02	.2690	1.662	572.5
27	.00000	.90000	758.00	.2660-01	.2110-01	.3200-01	.9182	.9443-03	.1435-02	.1680	1.076	565.9
27	55.000	.22000	759.00	.5900-01	.4790-01	.6960-01	.9174	.2145-02	.3116-02	.4230	3.144	546.8
27	55.000	.25000	760.00	.2720-01	.2210-01	.3240-01	.9150	.9907-03	.1450-02	.1980	1.551	544.2
27	55.000	.27000	761.00	.3630-01	.2940-01	.4350-01	.9150	.1317-02	.1947-02	.2570	1.914	548.3
27	55.000	.30000	762.00	.5650-01	.4590-01	.6750-01	.9150	.2055-02	.3023-02	.4060	2.441	546.3
27	55.000	.32000	763.00	.5480-01	.4450-01	.6530-01	.9150	.1994-02	.2926-02	.3960	2.343	545.3
27	55.000	.34000	764.00	.5440-01	.4420-01	.6480-01	.9150	.1982-02	.2905-02	.3940	2.342	544.8
27	55.000	.38000	766.00	.5060-01	.4120-01	.6020-01	.9150	.1844-02	.2698-02	.3680	2.239	544.2
27	55.000	.40000	767.00	.5030-01	.4100-01	.5990-01	.9150	.1835-02	.2684-02	.3660	2.293	544.1
27	55.000	.50000	768.00	.4620-01	.3760-01	.5510-01	.9149	.1685-02	.2467-02	.3370	2.508	544.1
27	67.500	.23000	769.00	.2090-01	.1700-01	.2490-01	.9141	.7634-03	.1117-02	.1540	1.203	541.7
27	67.500	.25000	770.00	.3380-01	.2750-01	.4050-01	.9141	.1232-02	.1805-02	.2450	1.787	545.0
27	67.500	.27000	771.00	.3150-01	.2570-01	.3760-01	.9141	.1149-02	.1687-02	.2310	1.431	543.2
27	67.500	.29000	772.00	.4340-01	.3530-01	.5200-01	.9141	.1581-02	.2327-02	.3150	1.928	544.4
27	67.500	.30000	773.00	.4730-01	.3850-01	.5660-01	.9141	.1725-02	.2537-02	.3450	2.092	544.0
27	67.500	.31000	774.00	.4570-01	.3720-01	.5460-01	.9141	.1668-02	.2448-02	.3350	2.019	543.0
27	67.500	.32000	775.00	.4350-01	.3550-01	.5200-01	.9141	.1588-02	.2330-02	.3190	1.927	543.0
27	67.500	.32500	776.00	.4550-01	.3710-01	.5440-01	.9141	.1662-02	.2436-02	.3340	2.026	542.6
27	67.500	.33000	777.00	.4660-01	.3800-01	.5570-01	.9141	.1703-02	.2494-02	.3430	2.079	542.3
27	67.500	.33500	778.00	.4570-01	.3720-01	.5460-01	.9141	.1668-02	.2444-02	.3360	2.036	542.4
27	67.500	.34000	779.00	.4540-01	.3700-01	.5430-01	.9141	.1660-02	.2431-02	.3340	2.031	542.3
27	67.500	.34500	780.00	.4420-01	.3600-01	.5270-01	.9141	.1614-02	.2362-02	.3260	1.984	542.0
27	67.500	.35000	781.00	.4360-01	.3550-01	.5200-01	.9141	.1592-02	.2331-02	.3210	1.960	542.2
27	67.500	.35500	782.00	.4350-01	.3550-01	.5190-01	.9141	.1589-02	.2325-02	.3210	1.959	541.9
27	67.500	.36000	783.00	.4230-01	.3450-01	.5050-01	.9141	.1546-02	.2261-02	.3120	1.903	541.7
27	67.500	.36500	784.00	.4210-01	.3430-01	.5020-01	.9141	.1538-02	.2249-02	.3110	1.905	541.6
27	67.500	.37000	785.00	.4210-01	.3430-01	.5030-01	.9141	.1538-02	.2252-02	.3100	1.918	542.0
27	67.500	.37500	786.00	.4250-01	.3470-01	.5070-01	.9141	.1552-02	.2273-02	.3130	1.940	542.1
27	67.500	.38000	787.00	.4370-01	.3570-01	.5230-01	.9141	.1597-02	.2341-02	.3210	1.995	542.6
27	67.500	.39000	788.00	.4430-01	.3610-01	.5290-01	.9141	.1618-02	.2370-02	.3260	2.042	542.3
27	67.500	.40000	789.00	.4050-01	.3290-01	.4870-01	.9141	.1468-02	.2180-02	.2870	1.841	548.0
27	67.500	.50000	790.00	.3720-01	.3010-01	.4470-01	.9141	.1350-02	.2002-02	.2650	1.737	547.6
27	67.500	.60000	791.00	.3430-01	.2760-01	.4160-01	.9141	.1238-02	.1863-02	.2360	1.661	553.2

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F10)

(IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
27	67.500	.80000	792.00	.3910-01	.3160-01	.4720-01	.9141	.1416-02	.21.5-02	.2740	1.717	550.4
27	67.500	.90000	793.00	.2050-01	.1650-01	.2470-01	.9141	.7410-03	.1106-02	.1430	.9230	550.2
27	78.000	.27000	794.00	.2650-01	.2160-01	.3180-01	.9134	.9681-03	.1424-02	.1950	1.392	542.6
27	78.000	.29000	795.00	.4170-01	.3410-01	.4980-01	.9134	.1529-02	.2233-02	.3120	1.932	539.4
28	78.000	.30000	796.00	.3570-01	.2910-01	.4290-01	.9134	.1303-02	.1921-02	.2600	1.581	543.0
28	78.000	.31000	797.00	.3670-01	.2990-01	.4400-01	.9134	.1337-02	.1970-02	.2670	1.625	542.6
28	78.000	.32000	798.00	.3700-01	.3020-01	.4440-01	.9134	.1350-02	.1988-02	.2710	1.636	542.2
28	78.000	.32500	799.00	.3890-01	.3170-01	.4660-01	.9134	.1417-02	.2087-02	.2840	1.723	542.2
28	78.000	.33000	800.00	.3830-01	.3120-01	.4590-01	.9134	.1397-02	.2057-02	.2800	1.699	542.1
28	78.000	.33500	801.00	.4020-01	.3270-01	.4820-01	.9134	.1465-02	.2157-02	.2940	1.780	542.2
28	78.000	.34000	802.00	.3640-01	.2970-01	.4360-01	.9134	.1328-02	.1953-02	.2670	1.617	541.8
28	78.000	.34500	803.00	.3780-01	.3080-01	.4530-01	.9134	.1379-02	.2029-02	.2770	1.686	541.7
28	78.000	.35000	804.00	.3640-01	.2970-01	.4370-01	.9134	.1329-02	.1955-02	.2670	1.625	541.7
28	78.000	.35500	805.00	.3850-01	.3140-01	.4610-01	.9134	.1405-02	.2065-02	.2830	1.721	541.3
28	78.000	.36000	806.00	.3690-01	.3010-01	.4420-01	.9134	.1345-02	.1978-02	.2710	1.649	541.6
28	78.000	.36500	807.00	.3510-01	.2860-01	.4210-01	.9134	.1282-02	.1884-02	.2580	1.577	541.4
28	78.000	.37000	808.00	.3630-01	.2960-01	.4350-01	.9134	.1324-02	.1946-02	.2660	1.632	541.6
28	78.000	.37500	809.00	.3620-01	.2950-01	.4340-01	.9134	.1321-02	.1941-02	.2660	1.629	541.5
28	78.000	.38000	810.00	.3670-01	.2990-01	.4400-01	.9134	.1340-02	.1970-02	.2700	1.661	541.5
28	78.000	.38000	811.00	.3330-01	.2720-01	.4000-01	.9134	.1217-02	.1790-02	.2440	1.509	541.9
28	78.000	.40000	812.00	.3450-01	.2820-01	.4140-01	.9134	.1260-02	.1853-02	.2540	.567	541.5
45	90.000	.40000-01	985.00	.1598	.1283	.1564	.9545	.5744-02	.7000-02	1.083	7.014	555.6
45	90.000	.50000-01	986.00	.1597	.1285	.1588	.9511	.5752-02	.7111-02	1.096	7.064	553.6
45	90.000	.60000-01	987.00	.1387	.1112	.1403	.9477	.4977-02	.6279-02	.9330	6.110	556.7
45	90.000	.70000-01	988.00	.1545	.1235	.1589	.9445	.5529 02	.7115 02	1.023	6.834	559.1
45	90.000	.80000-01	989.00	.2260	.1769	.2373	.9414	.7918-02	.1062-01	1.354	9.468	573.1
45	90.000	.10000+00	990.00	.2334	.1849	.2524	.9357	.8277-02	.1130-01	1.480	9.570	565.3
45	90.000	.15000	991.00	.1158	.9290-01	.1331	.9237	.4159-02	.5958-02	.7820	5.713	556.2
28	90.000	.23000	813.00	.2810-01	.2300-01	.3370-01	.9133	.1028-02	.1509-02	.2080	1.515	540.7
28	90.000	.24000	814.00	.2360-01	.1930-01	.2830-01	.9130	.8618-03	.1266-02	.1740	1.415	540.5
28	90.000	.27000	816.00	.2120-01	.1730-01	.2550-01	.9130	.7758-03	.1140-02	.1570	1.119	540.5
28	90.000	.29000	817.00	.1920-01	.1570-01	.2310-01	.9130	.7032-03	.1034 02	.1420	.8960	540.7
28	90.000	.30000	818.00	.2440-01	.1990-01	.2920-01	.9130	.8899-03	.1309-02	.1800	1.101	541.0
28	90.000	.31000	819.00	.2690-01	.2200-01	.3230-01	.9130	.9831-03	.1446-02	.1990	1.207	540.8
28	90.000	.32000	820.00	.2600-01	.2120-01	.3120-01	.9130	.9494-03	.1397-02	.1920	1.162	541.0
28	90.000	.32500	821.00	.2980-01	.2430-01	.3570-01	.9130	.1089-02	.1600-02	.2200	1.332	540.5
28	90.000	.33000	822.00	.2920-01	.2380-01	.3500-01	.9130	.1066-02	.1566-02	.2160	1.307	540.5
28	90.000	.33500	823.00	.3080-01	.2510-01	.3690-01	.9130	.1125-02	.1652-02	.2280	1.385	540.2
28	90.000	.34000	824.00	.3190-01	.2610-01	.3830-01	.9130	.1167-02	.1714-02	.2360	1.429	540.3
28	90.000	.34500	825.00	.3290-01	.2690-01	.3940-01	.9130	.1201-02	.1764-02	.2430	1.475	540.3
28	90.000	.35000	826.00	.3240-01	.2650-01	.3880-01	.9130	.1184-02	.1739-02	.2400	1.455	540.2
28	90.000	.35000	828.00	.3310-01	.2700-01	.3970-01	.9130	.1208-02	.1776-02	.2440	1.479	540.5
28	90.000	.35500	829.00	.4490-01	.3670-01	.5390 01	.9130	.1642-02	.2410-02	.3330	2.020	540.0

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F10)

(IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
28	90.000	.37000	830.00	.3140-01	.2570-01	.3770-01	.9130	.1148-02	.1686-02	.2330	1.416	540.0
28	90.000	.37500	831.00	.3180-01	.2600-01	.3820-01	.9130	.1164-02	.1708-02	.2360	1.446	539.7
28	90.000	.38000	832.00	.3110-01	.2540-01	.3720-01	.9130	.1136-02	.1667-02	.2300	1.409	539.9
28	90.000	.39000	833.00	.2680-01	.2190-01	.3220-01	.9130	.9801-03	.1440-02	.1980	1.226	540.4
28	90.000	.40000	834.00	.3010-01	.2460-01	.3610-01	.9130	.1100-02	.1615-02	.2230	1.381	540.1
28	90.000	.50000	835.00	.3020-01	.2460-01	.3640-01	.9130	.1101-02	.1629-02	.2200	1.391	543.2
28	90.000	.70000	837.00	.2150-01	.1740-01	.2590-01	.9130	.7810-03	.1160-02	.1550	1.089	544.9
28	90.000	.80000	838.00	.2160-01	.1760-01	.2600-01	.9130	.7895-03	.1165-02	.1580	.9860	542.3
28	90.000	.90000	839.00	.1490-01	.1220-01	.1800-01	.9130	.5444-03	.8058-03	.1080	.6940	543.6
28	90.000	.23000	840.00	.1640-01	.1350-01	.1970-01	.9130	.6025-03	.8803-03	.1230	.9990	538.0
28	112.50	.25000	841.00	.6900-02	.5600-02	.8200-02	.9130	.2518-03	.3678-03	.5200-01	.4010	538.0
28	112.50	.27000	842.00	.2200-02	.1800-02	.2600-02	.9130	.7990-04	.1170-03	.1600-01	.1140	539.1
28	112.50	.30000	843.00	.1310-01	.1070-01	.1560-01	.9130	.4774-03	.7002-03	.9700-01	.5790	539.7
28	112.50	.33000	844.00	.1570-01	.1290-01	.1880-01	.9130	.5760-03	.8420-03	.1180	.7140	538.2
28	112.50	.35000	845.00	.1520-01	.1240-01	.1810-01	.9130	.5551-03	.8118-03	.1130	.6980	538.4
28	112.50	.37000	846.00	.1750-01	.1430-01	.2100-01	.9130	.6420-03	.9394-03	.1310	.8110	538.7
28	112.50	.40000	847.00	.1860-01	.1520-01	.2220-01	.9130	.6802-03	.9947-03	.1390	.8700	538.4
28	112.50	.45000	848.00	.1900-01	.1550-01	.2270-01	.9130	.6960-03	.1018-02	.1420	.8980	538.3
28	112.50	.50000	849.00	.1690-01	.1380-01	.2030-01	.9130	.6182-03	.9082-03	.1250	.8070	540.4
28	112.50	.55000	850.00	.1200-01	.9800-02	.1440-01	.9130	.4388-03	.6445-03	.8900-01	.5950	540.4
28	112.50	.60000	851.00	.1470-01	.1200-01	.1760-01	.9130	.5376-03	.7880-03	.1090	.7340	539.8
28	112.50	.65000	852.00	.1370-01	.1120-01	.1640-01	.9130	.4991-03	.7340-03	.1010	.6880	540.8
28	112.50	.70000	853.00	.2000-01	.1630-01	.2410-01	.9130	.7277-03	.1077-02	.1450	1.019	543.6
28	112.50	.75000	854.00	.1750-01	.1430-01	.2110-01	.9130	.6378-03	.9442-03	.1270	.8250	543.6
28	112.50	.80000	855.00	.1970-01	.1600-01	.2360-01	.9130	.7177-03	.1058-02	.1440	.9400	541.8
28	112.50	.90000	856.00	.2160-01	.1750-01	.2600-01	.9130	.7849-03	.1163-02	.1560	1.014	543.9
28	112.50	.84000	857.00	.1520-01	.1240-01	.1820-01	.9130	.5534-03	.8164-03	.1110	.6880	542.2
28	125.40	.85000	858.00	.1660-01	.1350-01	.1990-01	.9130	.6034-03	.8910-03	.1210	.7520	542.6
28	125.40	.86000	859.00	.1900-01	.1550-01	.2290-01	.9130	.6933-03	.1025-02	.1390	.8700	543.0
28	125.40	.87000	860.00	.2160-01	.1750-01	.2600-01	.9130	.7849-03	.1162-02	.1560	.9840	543.5
28	125.40	.88000	861.00	.2500-01	.2030-01	.3010-01	.9130	.9095-03	.1347-02	.1810	1.138	543.9
28	125.40	.89000	862.00	.2560-01	.2080-01	.3080-01	.9130	.9299-03	.1380-02	.1840	1.165	544.8
28	125.40	.90000	863.00	.2500-01	.2030-01	.3010-01	.9130	.9077-03	.1347-02	.1800	1.145	544.6
28	125.40	.91000	864.00	.1900-01	.1550-01	.2290-01	.9130	.6930-03	.1026-02	.1380	1.005	543.5
28	125.40	.92600	865.00	.2950-01	.2390-01	.3560-01	.9130	.1070-02	.1595-02	.2100	1.522	546.4
28	129.30	.80000	866.00	.1660-01	.1350-01	.1990-01	.9130	.6045-03	.8922-03	.1210	.7630	542.3
28	129.30	.81000	867.00	.1450-01	.1190-01	.1750-01	.9130	.5304-03	.7830-03	.1060	.6650	542.4
28	129.30	.82000	868.00	.1300-01	.1060-01	.1560-01	.9130	.4748-03	.6998-03	.9500-01	.5980	541.8
28	129.30	.83000	869.00	.1360-01	.1110-01	.1640-01	.9130	.4975-03	.7338-03	.1000+00	.6270	542.1
28	135.00	.40000-01	870.00	.1234	.9900-01	.1274	.9436	.4433-02	.5702-02	.8350	5.346	554.4
28	135.00	.50000-01	871.00	.1199	.9660-01	.1257	.9403	.4325-02	.5628-02	.8290	5.286	551.1
28	135.00	.60000-01	872.00	.1094	.8810-01	.1167	.9371	.3943-02	.5224-02	.7510	4.972	552.3
28	135.00	.70000-01	873.00	.1932	.1518	.2114	.9342	.6793-02	.9462-02	1.177	7.920	569.4

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F10)

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
28	135.00	.10000+00	875.00	.1624	.1299	.1841	.9264	.5814-02	.8241-02	1.080	7.048	557.1
28	135.00	.15000	876.00	.7080-01	.5740-01	.8370-01	.9170	.2567-02	.3746-02	.5030	3.681	546.8
28	135.00	.20000	877.00	.2630-01	.2160-01	.3150-01	.9130	.9660-03	.1408-02	.1990	1.347	537.0
28	135.00	.35000	878.00	.1080-01	.8900-02	.1290-01	.9130	.3968-03	.5783-03	.8200-01	.5100	536.9
28	135.00	.40000	879.00	.9400-02	.7700-02	.1120-01	.9130	.3428-03	.5002-03	.7000-01	.4490	537.3
28	135.00	.50000	880.00	.7700-02	.6300-02	.9300-02	.9130	.2834-03	.4154-03	.5800-01	.3970	539.3
28	135.00	.55000	881.00	.2200-02	.1800-02	.2600-02	.9130	.7875-04	.1153-03	.1600-01	.1070	539.1
28	135.00	.60000	882.00	.5700-02	.4600-02	.6800-02	.9130	.2073-03	.3038-03	.4200-01	.2840	539.4
28	135.00	.65000	883.00	.6100-02	.4900-02	.7300-02	.9130	.2213-03	.3254-03	.4500-01	.3060	540.7
28	135.00	.70000	884.00	.9600-02	.7800-02	.1160-01	.9130	.3491-03	.5171-03	.6900-01	.4940	543.8
28	135.00	.75000	885.00	.8300-02	.6700-02	.9900-02	.9130	.3004-03	.4451-03	.6000-01	.3770	544.0
28	135.00	.80000	886.00	.2750-01	.2250-01	.3290-01	.9130	.1006-02	.1476-02	.2050	1.291	541.4
28	135.00	.84000	887.00	.2970-01	.2420-01	.3550-01	.9130	.1086-02	.1593-02	.2210	1.395	541.2
28	135.00	.85000	888.00	.2270-01	.1860-01	.2720-01	.9130	.8316-03	.1217-02	.1700	1.081	539.7
45	135.00	.86000	889.00	.2420-01	.1980-01	.2900-01	.9130	.8847-03	.1296-02	.1800	1.144	540.2
45	135.00	.87000	890.00	.2290-01	.1870-01	.2750-01	.9130	.8381-03	.1230-02	.1700	1.087	540.8
45	135.00	.88000	891.00	.2880-01	.2350-01	.3450-01	.9130	.1051-02	.1545-02	.2130	1.362	541.8
45	135.00	.89000	892.00	.3020-01	.2460-01	.3630-01	.9130	.1102-02	.1624-02	.2220	1.446	542.8
45	135.00	.90000	893.00	.3020-01	.2460-01	.3620-01	.9130	.1100-02	.1622-02	.2210	1.460	542.9
45	135.00	.91000	894.00	.2290-01	.1870-01	.2750-01	.9130	.8353-03	.1230-02	.1680	1.232	542.4
45	135.00	.92600	895.00	.3050-01	.2480-01	.3670-01	.9130	.1109-02	.1643-02	.2210	1.606	545.0
45	135.00	.95000	896.00	.3450-01	.2800-01	.4160-01	.9130	.1256-02	.1862-02	.2500	1.805	545.3
45	142.30	.42000	897.00	.9800-02	.8100-02	.1170-01	.9130	.3625-03	.5249-03	.7600-01	.4910	534.9
45	142.30	.43500	898.00	.6600-02	.5500-02	.790[illegible]-02	.9130	.2444-03	.3539-03	.5100-01	.3210	534.9
45	142.30	.45000	899.00	.8100-02	.6600-02	.9600-02	.9130	.2970-03	.4301-03	.6200-01	.4090	535.0
45	142.30	.50000	900.00	.5600-02	.4600-02	.6700-02	.9130	.2062-03	.3000-03	.4300-01	.2860	537.0
45	142.30	.70000	902.00	.1490-01	.1220-01	.1790-01	.9130	.5442-03	.7996-03	.1100	.7550	541.5
45	142.30	.80000	903.00	.2320-01	.1890-01	.2770-01	.9130	.8477-03	.1242-02	.1730	1.103	540.1
45	142.30	.87000	904.00	.2420-01	.1970-01	.2900-01	.9130	.8827-03	.1300-02	.1780	1.127	542.5
45	154.98	.42000	905.00	.5400-02	.4500-02	.6500-02	.9130	.1997-03	.2890-03	.4200-01	.2720	534.6
45	154.98	.43500	906.00	.1260-01	.1030-01	.1500-01	.9130	.4622-03	.6735-03	.9500-01	.6190	535.4
45	154.98	.45000	907.00	.1290-01	.1060-01	.1540-01	.9130	.4734-03	.6899-03	.9700-01	.6380	535.3
45	154.98	.50000	908.00	.1210-01	.9900-02	.1450-01	.9130	.4437-03	.6494-03	.9000-01	.6490	537.1
45	154.98	.93500	913.00	.1970-01	.1600-01	.2380-01	.9130	.7157-03	.1064-02	.1420	1.030	546.3
45	154.98	.94500	914.00	.3540-01	.2870-01	.4270-01	.9130	.1286-02	.1910-02	.2550	1.837	545.9
45	157.50	.70000-01	918.00	.1239	.9940-01	.1365	.9314	.4449-02	.6110-02	.8360	5.782	556.3
45	157.50	.80000-01	919.00	.1670	.1330	.1873	.9287	.5955-02	.8386-02	1.090	7.383	551.1
45	157.50	.10000+00	920.00	.1288	.1039	.1473	.9239	.4649-02	.6594-02	.8920	5.945	552.2
45	157.50	.20000	922.00	.2000-01	.1640-01	.2380-01	.9130	.7359-03	.1064-02	.1550	1.036	534.1
45	157.50	.42000	923.00	.4300-02	.3500-02	.5100-02	.9130	.1579-03	.2285-03	.3300-01	.2170	534.6
45	157.50	.43500	924.00	.4600-02	.3800-02	.5500-02	.9130	.1706-03	.2469-03	.3600-01	.2350	534.7
45	157.50	.45000	925.00	.4200-02	.3500-02	.5000-02	.9130	.1561-03	.2260-03	.3300-01	.2170	534.7
45	157.50	.85000	926.00	.2330-01	.1910-01	.2800-01	.9130	.8536-03	.1253-02	.1730	1.124	541.2

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
45	157.50	.86000	927.00	.2170-01	.1770-01	.2600-01	.9130	.7917-03	.1164-02	.1600	1.042	541.8
45	157.50	.87000	928.00	.2720-01	.2220-01	.3270-01	.9130	.9949-03	.1464-02	.2010	1.312	542.0
45	157.50	.88000	929.00	.2880-01	.2350-01	.3460-01	.9130	.1050-02	.1548-02	.2110	1.385	543.0
45	157.50	.89000	930.00	.2540-01	.2070-01	.3060-01	.9130	.9267-03	.1368-02	.1860	1.227	543.4
45	157.50	.90000	931.00	.2450-01	.2000-01	.2950-01	.9130	.8944-03	.1323-02	.1790	1.207	544.2
45	157.50	.91000	932.00	.1530-01	.1250-01	.1840-01	.9130	.5575-03	.8226-03	.1120	.8210	543.2
45	157.50	.92600	933.00	.2290-01	.1870-01	.2770-01	.9130	.8351-03	.1238-02	.1660	1.213	545.1
45	163.12	.41500	934.00	.3600-02	.3000-02	.4300-02	.9130	.1336-03	.1933-03	.2800-01	.1830	534.6
45	163.12	.42000	935.00	.3400-02	.2800-02	.4000-02	.9130	.1249-03	.1806-03	.2600-01	.1730	534.3
45	163.12	.43000	937.00	.4500-02	.3700-02	.5400-02	.9130	.1663-03	.2406-03	.3500-01	.2300	534.7
45	163.12	.44000	938.00	.4600-02	.3800-02	.5500-02	.9130	.1708-03	.2475-03	.3600-01	.2350	535.1
45	163.12	.44500	939.00	.3600-02	.3000-02	.4300-02	.9130	.1340-03	.1942-03	.2800-01	.1870	535.4
45	163.12	.45000	940.00	.3800-02	.3100-02	.4500-02	.9130	.1382-03	.2002-03	.2900-01	.1930	535.2
45	163.12	.50000	941.00	.5700-02	.4700-02	.6800-02	.9130	.2092-03	.3049-03	.4300-01	.2940	529.0
45	163.12	.60000	942.00	.9600-02	.7900-02	.1150-01	.9130	.3542-03	.5153-03	.7300-01	.4750	537.1
45	163.12	.70000	943.00	.1500-01	.1220-01	.1800-01	.9130	.5483-03	.8057-03	.1110	.7650	541.5
45	163.12	.80000	944.00	.2200-01	.1800-01	.2640-01	.9130	.8046-03	.1181-02	.1630	1.069	541.1
45	168.00	.35000	945.00	.5800-02	.4700-02	.6800-02	.9130	.2119-03	.3062-03	.4500-01	.2840	533.8
45	168.00	.36000	946.00	.5100-02	.4200-02	.6100-02	.9130	.1895-03	.2738-03	.4000-01	.2550	533.8
45	168.00	.37000	947.00	.4800-02	.4000-02	.5700-02	.9130	.1770-03	.2556-03	.3700-01	.2390	533.7
45	168.00	.37500	948.00	.4000-02	.3300-02	.4800-02	.9130	.1490-03	.2154-03	.3100-01	.2010	534.1
45	168.00	.38500	950.00	.3600-02	.2900-02	.4200-02	.9130	.1311-03	.1894-03	.2800-01	.1790	533.9
45	168.00	.39000	951.00	.5800-02	.4800-02	.6900-02	.9130	.2140-03	.3093-03	.4500-01	.2940	533.9
45	168.00	.39500	952.00	.4500-02	.3700-02	.5300-02	.9130	.1647-03	.2383-03	.3500-01	.2220	534.6
45	168.00	.40000	953.00	.5200-02	.4300-02	.6200-02	.9130	.1904-03	.2754-03	.4000-01	.2610	534.5
45	168.00	.40500	954.00	.4300-02	.3500-02	.5100-02	.9130	.1573-03	.2277-03	.3300-01	.2160	534.7
45	168.00	.41500	956.00	.1220-01	.1000-01	.1450-01	.9130	.4490-03	.6511-03	.9400-01	.6160	535.6
45	166.00	.42000	957.00	.4400-02	.3600-02	.5300-02	.9130	.1631-03	.2363-03	.3400-01	.2250	535.0
45	168.00	.42500	958.00	.3200-02	.2600-02	.3800-02	.9130	.1169-03	.1692-03	.2400-01	.1620	534.6
45	168.00	.43000	959.00	.4900-02	.4000-02	.5800-02	.9130	.1784-03	.2587-03	.3700-01	.2450	535.4
45	168.00	.45000	962.00	.6800-02	.5600-02	.8100-02	.9130	.2512-03	.3645-03	.5200-01	.3470	535.9
45	168.00	.45500	963.00	.6100-02	.5000-02	.7200-02	.9130	.2228-03	.3233-03	.4600-01	.3080	535.9
45	168.00	.47000	965.00	.3900-02	.3200-02	.4700-02	.9130	.1441-03	.2094-03	.3000-01	.2000	536.6
45	168.00	.48000	966.00	.5700-02	.4600-02	.6800-02	.9130	.2081-03	.3027-03	.4300-01	.2910	536.9
45	168.00	.49000	967.00	.1420-01	.1170-01	.1700-01	.9130	.5228-03	.7601-03	.1080	.7330	536.7
45	168.00	.85000	968.00	.2760-01	.2250-01	.3310-01	.9130	.1007-02	.1483-02	.2030	1.323	542.2
45	168.00	.86000	969.00	.2500-01	.2040-01	.3000-01	.9130	.9123-03	.1344-02	.1840	1.199	542.5
45	168.00	.87000	970.00	.2650-01	.2160-01	.3190-01	.9130	.9680-03	.1428-02	.1950	1.272	543.1
45	168.00	.88000	971.00	.2740-01	.2230-01	.3300-01	.9130	.9984-03	.1476-02	.2000	1.310	544.0
45	168.00	.89000	972.00	.2800-01	.2280-01	.3370-01	.9130	.1020-02	.1510-02	.2030	1.351	544.8
45	168.00	.90000	973.00	.2720-01	.2210-01	.3270-01	.9130	.9894-03	.1463-02	.1980	1.347	544.3
45	168.00	.91000	974.00	.1820-01	.1480-01	.2190-01	.9130	.6641-03	.9797-03	.1330	.9760	543.1
45	168.00	.92600	975.00	.2370-01	.1920-01	.2850-01	.9130	.8611-03	.1276-02	.1710	1.244	545.0

ORIGINAL PAGE IS
OF POOR QUALITY

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS) (RV7F10)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TH DEG. R
45	168.00	.95000	976.00	.3500-01	.2840-01	.4230-01	.9130	.1272-02	.1892-02	.2510	1.811	546.5
26	180.00	.40000-01	600.00	.9740-01	.7870-01	.1025	.9395	.3524-02	.4590-02	.6840	4 391	551.0
26	180.00	.50000-01	601.00	.8400-01	.6820-01	.8980-01	.9363	.3053-02	.4021-02	.6020	3.881	547.9
26	180.00	.60000-01	602.00	.7480-01	.6060-01	.8110-01	.9332	.2714-02	.3633-02	.5340	3.554	548.5
26	180.00	.70000-01	603.00	.1017	.8160-01	.1125	.9304	.3657-02	.5038-02	.6920	4.699	556.1
26	180.00	.80000-01	604.00	.1560	.1212	.1760	.9278	.5564-02	.7882-02	1.018	6.570	562.3
26	180.00	.10000+00	605.00	.1188	.9560-01	.1367	.9231	.4281-02	.6122-02	.8160	5.831	554.7
26	180.00	.15000	606.00	.4910-01	.4000-01	.5830-01	.9150	.1794-02	.2613-02	.3620	2.638	543.3
26	180.00	.20000	607.00	.1580-01	.1290-01	.1880-01	.9130	.5791-03	.8430-03	.1200	.7660	538.1
26	180.00	.21000	608.00	.1140-01	.9300-02	.1360-01	.9130	.4185-03	.6096-03	.8700-01	.6010	538.3
26	180.00	.22000	609.00	.9100-02	.7400-02	.1080-01	.9130	.3333-03	.4858-03	.6900-01	.5140	538.7
26	180.00	.30000	610.00	.2500-02	.2000-02	.2900-02	.9130	.9044-04	.1317-03	.1900-01	.1290	538.3
26	180.00	.39000	617.00	.3400-02	.2800-02	.4000-02	.9130	.1240-03	.1804-03	.2600-01	.1730	538.0
26	180.00	.39500	618.00	.5900-02	.4800-02	.7000-02	.9130	.2158-03	.3141-03	.4500-01	.3030	538.0
26	180.00	.40000	619.00	.7900-02	.6500-02	.9500-02	.9130	.2910-03	.4238-03	.6000-01	.4050	538.3
26	180.00	.40500	620.00	.6500-02	.5300-02	.7800-02	.9130	.2384-03	.3472-03	.4900-01	.3330	538.4
26	180.00	.41000	621.00	.7700-02	.6400-02	.9300-02	.9130	.2844-03	.4146-03	.5900-01	.3960	538.7
26	180.00	.41500	622.00	.8300-02	.6800-02	.9900-02	.9130	.3036-03	.4427-03	.6300-01	.4220	538.8
26	180.00	.42500	624.00	.9000-02	.7400-02	.1080-01	.9130	.3306-03	.4829-03	.6800-01	.4570	539.7
26	180.00	.43000	625.00	.9900-02	.8100-02	.1160-01	.9130	.3614-03	.5278-03	.7400-01	.5010	539.6
26	180.00	.44000	626.00	.9400-02	.7700-02	.1130-01	.9130	.3449-03	.5039-03	.7100-01	.4780	539.8
26	180.00	.44500	627.00	.1000-01	.8200-02	.1200-01	.9130	.3667-03	.5358-03	.7500-01	.5130	539.8
26	180.00	.45500	629.00	.1020-01	.8300-02	.1210-01	.9130	.3722-03	.5439-03	.7600-01	.5280	539.9
26	180.00	.46000	630.00	.1130-01	.9300-02	.1360-01	.9130	.4152-03	.6070-03	.8500-01	.5740	540.1
26	180.00	.47000	631.00	.1290-01	.1050-01	.1540-01	.9130	.4720-03	.6911-03	.9700-01	.6510	540.7
26	180.00	.49000	633.00	.1460-01	.1200-01	.1750-01	.9130	.5356-03	.7858-03	.1090	.7460	541.6
26	180.00	.50000	634.00	.1430-01	.1170-01	.1720-01	.9130	.5241-03	.7692-03	.1070	.7480	541.8
26	180.00	.55000	635.00	.2690-01	.2190-01	.3230-01	.9130	.9818-03	.1445-02	.1990	1.321	543.0
26	180.00	.60000	636.00	.3340-01	.2720-01	.4010-01	.9130	.1218-02	.1795-02	.2460	1.586	543.6
26	180.00	.65000	637.00	.3040-01	.2480-01	.3650-01	.9130	.1109-02	.1636-02	.2230	1.445	544.0
26	180.00	.70000	638.00	.2540-01	.2060-01	.3070-01	.9130	.9247-03	.1373-02	.1840	1.257	546.7
26	180.00	.80000	640.00	.3120-01	.2540-01	.3760-01	.9130	.1137-02	.1682-02	.2280	1.428	545.0
26	180.00	.85000	641.00	.3740-01	.3040-01	.4510-01	.9130	.1364-02	.2020-02	.2720	1.721	545.7
26	180.00	.86000	642.00	.3620-01	.2940-01	.4370-01	.9130	.1318-02	.1956-02	.2620	1.680	546.4
26	180.00	.87000	643.00	.3450-01	.2800-01	.4160-01	.9130	.1256-02	.1862-02	.2500	1.613	546.1
26	180.00	.88000	644.00	.3890-01	.3160-01	.4690-01	.9130	.1417-02	.2102-02	.2820	1.835	546.2
26	180.00	.89000	645.00	.3760-01	.3050-01	.4540-01	.9130	.1367-02	.2035-02	.2700	1.778	547.6
26	180.00	.90000	646.00	.3090-01	.2510-01	.3730-01	.9130	.1126-02	.1672-02	.2240	1.503	546.7
26	180.00	.92600	648.00	.3380-01	.2750-01	.4080-01	.9130	.1230-02	.1826-02	.2440	1.781	546.7
26	180.00	.95000	649.00	.3030-01	.2450-01	.3660-01	.9130	.1099-02	.1638-02	.2170	1.564	548.1
26	191.25	.35000	650.00	.5500-02	.4500-02	.6600-02	.9130	.2034-03	.2957-03	.4200-01	.2850	537.5
26	191.25	.36000	651.00	.3000-02	.2400-02	.3500-02	.9130	.1092-03	.1589-03	.2300-01	.1530	538.0
26	191.25	.37000	652.00	.4200-02	.3500-02	.5000-02	.9130	.1548-03	.2254-03	.3200-01	.2160	538.2

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F10)

(IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
26	191.25	.37500	653.00	.2800-02	.2300-02	.3300-02	.9130	.1018-03	.1482-03	.2100-01	.1430	538.1
26	191.25	.38000	654.00	.4000-02	.3300-02	.4800-02	.9130	.1483-03	.2159-03	.3100-01	.2080	538.1
26	191.25	.38500	655.00	.3400-02	.2800-02	.4100-02	.9130	.1248-03	.1817-03	.2600-01	.1750	538.1
26	191.25	.39000	656.00	.3800-02	.3100-02	.4600-02	.9130	.1411-03	.2054-03	.2900-01	.1980	538.2
26	191.25	.39500	657.00	.8900-02	.7300-02	.1070-01	.9130	.3283-03	.4779-03	.6800-01	.4610	538.0
26	191.25	.40000	658.00	.1020-01	.8400-02	.1220-01	.9130	.3761-03	.5478-03	.7800-01	.5280	538.4
26	191.25	.40500	659.00	.1140-01	.9400-02	.1370-01	.9130	.4197-03	.6114-03	.8700-01	.5890	538.5
26	191.25	.41000	660.00	.4000-02	.3300-02	.4800-02	.9130	.1468-03	.2138-03	.3000-01	.2060	538.4
26	191.25	.41500	661.00	.7100-02	.5800-02	.8500-02	.9130	.2612-03	.3805-03	.5400-01	.3640	538.5
26	191.25	.42000	662.00	.6700 02	.5500-02	.8000-02	.9130	.2463-03	.3592-03	.5100-01	.3440	539.0
26	191.25	.42500	663.00	.5600-02	.4600-02	.6600-02	.9130	.2042-03	.2977-03	.4200-01	.2860	538.9
26	191.25	.43000	664.00	.6400-02	.5200-02	.7600-02	.9130	.2344-03	.3420-03	.4800-01	.3310	539.1
26	191.25	.44000	665.00	.6400-02	.5200-02	.7600-02	.9130	.2345-03	.3423-03	.4800-01	.3290	539.3
26	191.25	.45000	666.00	.7400-02	.6100-02	.8900-02	.9130	.2730-03	.3989-03	.5600-01	.3820	539.9
26	191.25	.45500	667.00	.8200-02	.6700-02	.9800-02	.9130	.3002-03	.4384-03	.6200-01	.4200	539.6
26	191.25	.46000	668.00	.8200-02	.6700-02	.9800-02	.9130	.3018-03	.4409-03	.6200-01	.4230	539.7
26	191.25	.47000	669.00	.9900-02	.8100-02	.1190-01	.9130	.3643-03	.5325-03	.7500-01	.5120	539.9
26	191.25	.48000	670.00	.1110-01	.9100-02	.1330-01	.9130	.4076-03	.5959-03	.8300-01	.5700	540.8
26	191.25	.49000	671.00	.1130-01	.9200-02	.1350-01	.9130	.4125-03	.8050-03	.8400-01	.5730	541.5
26	191.25	.50000	672.00	.9800-02	.8000-02	.1170-01	.9130	.3587-03	.5260-03	.7300-01	.5100	541.4
26	191.25	.60000	673.00	.1630-01	.1330-01	.1950-01	.9130	.5944-03	.8732-03	.1210	.7760	542.1
26	191.25	.70000	674.00	.2260-01	.1840-01	.2720-01	.9130	.8225-03	.1220-02	.1640	1.113	546.3
26	191.25	.85000	676.00	.3170-01	.2580-01	.3810-01	.9130	.1156-02	.1707-02	.2320	1.467	544.6
26	191.25	.86000	677.00	.3410-01	.2780-01	.4110-01	.9130	.1244-02	.1842-02	.2480	1.589	545.5
26	191.25	.87000	678.00	.3590-01	.2920-01	.4330-01	.9130	.1307-02	.1938-02	.2600	1.679	546.0
26	191.25	.88000	679.00	.3850-01	.3130-01	.4650-01	.9130	.1402-02	.2083-02	.2780	1.813	547.0
26	191.25	.89000	680.00	.3560-01	.2890-01	.4300-01	.9130	.1296-02	.1928-02	.2560	1.696	547.5
26	191.25	.90000	681.00	.3310-01	.2690-01	.4000-01	.9130	.1205-02	.1792-02	.2380	1.606	547.4
26	191.25	.91000	682.00	.1750-01	.1420-01	.2110-01	.9130	.6363-03	.9432-03	.1270	.9250	546.0
26	191.25	.92600	683.00	.2730-01	.2220-01	.3300-01	.9130	.9931-03	.1478-02	.1960	1.435	547.7
26	191.25	.95000	684.00	.3580-01	.2900-01	.4320-01	.9130	.1299-02	.1935-02	.2560	1.849	548.0
26	197.00	.33000	685.00	.4200-02	.3400-02	.5000-02	.9130	.1532-03	.2228-03	.3200-01	.2150	537.5
26	197.00	.34000	686.00	.3600-02	.3000-02	.4300-02	.9130	.1329-03	.1932-03	.2800-01	.1870	537.4
26	197.00	.36000	688.00	.2900-02	.2400-02	.3500-02	.9130	.1071-03	.1557-03	.2200-01	.1500	537.5
26	197.00	.37000	689.00	.2900-02	.2400-02	.3500-02	.9130	.1080-03	.1571-03	.2200-01	.1510	537.6
26	197.00	.50000	691.00	.7000-02	.5700-02	.8300-02	.9130	.2547-03	.3723-03	.5200-01	.3510	540.7
26	197.00	.60000	692.00	.1090-01	.8900-02	.1300-01	.9130	.3982-03	.5832-03	.8100-01	.5260	540.9
26	197.00	.70000	693.00	.1520-01	.1230-01	.1820-01	.9130	.5528-03	.8168-03	.1110	.7530	544.6
28	197.00	.80000	694.00	.3950-01	.3190-01	.4780-01	.9130	.1429-02	.2139-02	.2770	1.740	545.0
28	197.00	.87000	695.00	.4260-01	.3440-01	.5160-01	.9130	.1539-02	.2312-02	.2960	1.885	546.4
45	197.00	.92600	696.00	.3500-01	.2830-01	.4250-01	.9130	.1266-02	.1901-02	.2440	1.785	546.1
27	209.80	.50000-01	699.00	.1027	.8320-01	.1087	.9380	.3729-02	.4871-02	.7330	4.658	547.2
27	209.80	.70000-01	700.00	.1008	.8100-01	.1104	.9321	.3630-02	.4946-02	.6900	4.648	553.8

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS) (RV7F10)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
27	209.80	.10000+00	701.00	.1415	.1134	.1620	.9245	.5079-02	.7256-02	.9500	6.027	556.7
27	209.80	.15000	702.00	.5960-01	.4840-01	.7080-01	.9158	.2166-02	.3170-02	.4280	3.064	546.1
27	209.80	.20000	703.00	.2030-01	.1660-01	.2420-01	.9130	.7432-03	.1086-02	.1520	1.019	538.7
27	209.80	.30000	704.00	.5000-02	.4100-02	.6000-02	.9130	.1828-03	.2674-03	.3700-01	.2660	539.2
27	209.80	.35000	705.00	.4700-02	.3800-02	.5600-02	.9130	.1723-03	.2515-03	.3500-01	.2440	538.2
27	209.80	.37500	706.00	.3000-02	.2500-02	.3600-02	.9130	.1105-03	.1611-03	.2300-01	.1570	537.7
27	209.80	.50000	707.00	.5300-02	.4300-02	.6300-02	.9130	.1924-03	.2824-03	.3900-01	.2680	540.8
27	209.80	.60000	708.00	.7200-02	.5900-02	.8600-02	.9130	.2629-03	.3849-03	.5400-01	.3430	539.6
27	209.80	.70000	709.00	.1620-01	.1320-01	.1950-01	.9130	.5838-03	.8722-03	.1180	.7520	543.9
27	209.80	.80000	710.00	.2370-01	.1930-01	.2850-01	.9130	.8664-03	.1275-02	.1750	1.092	542.0
27	209.80	.87000	711.00	.3470-01	.2830-01	.4180-01	.9130	.1266-02	.1873-02	.2530	1.601	544.0
27	209.80	.92600	712.00	.2850-01	.2310-01	.3430-01	.9130	.1036-02	.1539-02	.2050	1.494	545.6
27	217.70	.50000-01	715.00	.1130	.9140-01	.1192	.9391	.4094-02	.5338-02	.7960	5.189	549.3
27	217.70	.70000-01	716.00	.1539	.1217	.1690	.9331	.5452-02	.7573-02	.9690	6.550	566.0
27	217.70	.10000+00	717.00	.1563	.1249	.1784	.9254	.5535-02	.7992-02	1.036	6.677	558.7
27	217.70	.15000	718.00	.6190-01	.5020-01	.7330-01	.9164	.2250-02	.3286-02	.4440	3.248	546.5
27	217.70	.20000	719.00	.2210-01	.1810-01	.2640-01	.9130	.8102-03	.1182-02	.1670	1.130	537.9
27	217.70	.30000	720.00	.5400-02	.5200-02	.7700-02	.9130	.2345-03	.3431-03	.4800-01	.3440	539.4
27	217.70	.35000	721.00	.5600-02	.4600-02	.6700-02	.9130	.2065-03	.3012-03	.4200-01	.2960	538.1
27	217.70	.37500	722.00	.5400-02	.4400-02	.6400-02	.9130	.1964-03	.2865-03	.4000-01	.2810	538.0
27	217.70	.50000	723.00	.4800-02	.3900-02	.5700-02	.9130	.1751-03	.2571-03	.3600-01	.2460	540.8
27	217.70	.60000	724.00	.1130-01	.9200-02	.1350-01	.9130	.4124-03	.6045-03	.8400-01	.5390	540.1
27	217.70	.70000	725.00	.1620-01	.1320-01	.1940-01	.9130	.5893-03	.8710-03	.1180	.7510	543.6
27	217.70	.80000	726.00	.2420-01	.1970-01	.2900-01	.9130	.8840-03	.1301-02	.1790	1.125	541.8
27	217.70	.87000	727.00	.3220-01	.2620-01	.3870-01	.9130	.1174-02	.1733-02	.2360	1.511	543.6
27	217.70	.92600	728.00	.2670-01	.2170-01	.3220-01	.9130	.9717-03	.1442-02	.1930	1.403	545

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F11)

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = 10.00 BETA = -3.000 GRIT = 3.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
23	5.500	4.958	10.05	2.900	-16.00	178.0	.1910	744.0	105.5	4.052	2768.	.1521-03
24	5.500	4.931	10.05	2.900	-16.00	178.0	.1910	747.0	105.9	4.052	2774.	.1516-03
25	5.500	4.949	10.04	2.900	-16.00	178.1	.1910	745.0	105.7	4.053	2770.	.1520-03
44	5.500	4.986	10.03	2.900	-16.00	177.9	.1910	741.0	105.1	4.049	2762.	.1527-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
23	.8495-07	.4480-01	.1365-01
24	.8527-07	.4483-01	.1369-01
25	.8507-07	.4482-01	.1366-01
44	.8459-07	.4476-01	.1362-01

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
44	.00000	.12000-01	977.00	.5756	.4131	.4663	.9798	.1849-01	.2087-01	2.426	14.91	609.5
44	.00000	.15100-01	978.00	.5273	.3912	.4411	.9781	.1751-01	.1975-01	2.515	16.79	597.2
44	.00000	.18000-01	979 00	.4559	.3430	.3872	.9770	.1536-01	.1733-01	2.297	15.52	591.2
44	.00000	.24000-01	980.00	.4005	.3054	.3467	.9749	.1367-01	.1552-01	2.133	14.02	584.7
44	.00000	.33000-01	981.00	.3448	.2664	.3040	.9728	.1193-01	.1361-01	1.943	12.26	577.9
24	.00000	.40000-01	737.00	.2502	.1984	.2243	.9722	.8896-02	.1005-01	1.604	10.37	566.3
24	.00000	.45000-01	738.00	.2294	.1823	.2075	.9704	.8171-02	.9300-02	1.485	9.746	564.9
24	.00000	.60000-01	739.00	.2105	.1661	.1946	.9653	.7447-02	.8725-02	1.319	8.768	569.5
24	.00000	.70000-01	740.00	.3501	.2650	.3253	.9619	.1188-01	.1458-01	1.824	12.05	593.1
24	.00000	.80000-01	741.00	.4414	.3275	.4167	.9585	.1468-01	.1868-01	2.125	15.03	602.0
24	.00000	.10000+00	742.00	.3444	.2668	.3403	.9521	.1196-01	.1525-01	1.982	13.02	581.0
24	.00000	.12500	743.00	.2603	.1999	.2693	.9445	.8960-02	.1207-01	1.440	10.26	586.0
24	.00000	.15000	744.00	.2083	.1630	.2239	.9375	.7308-02	.1004-01	1.256	8.608	574.9
24	.00000	.17500	745.00	.1390	.1104	.1541	.9311	.4948-02	.6907-02	.8970	6.683	565.3
24	.00000	.20000	746.00	.1062	.8510-01	.1208	.9254	.3817-02	.5417-02	.7190	5.117	558.2
24	.00000	.21500	747.00	.8500-01	.6840-01	.9810-01	.9225	.3067-02	.4397-02	.5870	4 051	555.3

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS) (RV7F11)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
24	.00000	.23000	748.00	.7480-01	.6020-01	.8760-01	.9198	.2700-02	.3928-02	.5170	3.808	555.1
24	.00000	.24000	749.00	.6510-01	.5250-01	.7690-01	.9182	.2353-02	.3449-02	.4520	3.398	554.4
24	.00000	.25000	750.00	.3970-01	.3220-01	.4670-01	.9182	.1441-02	.2091-02	.2830	2.288	550.1
24	.00000	.30000	751.00	.7460-01	.6020-01	.8800-01	.9182	.2697-02	.3943-02	.5210	3.409	553.4
24	.00000	.35000	752.00	.7100-01	.5740-01	.8360-01	.9182	.2574-02	.3749-02	.5010	3.161	551.9
24	.00000	.40000	753.00	.6680-01	.5380-01	.7900-01	.9182	.2410-02	.3542-02	.4610	2.950	555.5
24	.00000	.50000	754.00	.6400-01	.5040-01	.7730-01	.9182	.2260-02	.3467-02	.3960	2.562	571.3
24	.00000	.60000	755.00	.7720-01	.6050-01	.9360-01	.9182	.2714-02	.4196-02	.4690	2.969	573.7
24	.00000	.70000	756.00	.6870-01	.5350-01	.8390-01	.9182	.2398-02	.3760-02	.4040	2.628	578.1
24	.00000	.80000	757.00	.5910-01	.4650-01	.7140-01	.9182	.2084-02	.3200-02	.3650	2.257	571.7
24	.00000	.90000	758.00	.3030-01	.2410-01	.3630-01	.9182	.1080-02	.1628-02	.1960	1.256	565.2
24	55.000	.22000	759.00	.7050-01	.5700-01	.8240-01	.9196	.2555-02	.3693-02	.4980	3.697	551.8
24	55.000	.25000	760.00	.3750-01	.3050-01	.4430-01	.9166	.1366-02	.1987-02	.2720	2.132	547.4
24	55.000	.27000	761.00	.5060-01	.4090-01	.6020-01	.9166	.1834-02	.2698-02	.3560	2.644	552.3
24	55.000	.30000	762.00	.6720-01	.5450-01	.7960-01	.9166	.2443-02	.3570-02	.4820	2.893	549.5
24	55.000	.32000	763.00	.6560-01	.5320-01	.7760-01	.9166	.2384-02	.3479-02	.4720	2.789	548.8
24	55.000	.34000	764.00	.6230-01	.5060-01	.7370-01	.9166	.2267-02	.3305-02	.4490	2.663	548.5
24	55.000	.38000	766.00	.6100-01	.4950-01	.7220-01	.9166	.2218-02	.3236-02	.4390	2.664	548.8
24	55.000	.40000	767.00	.6030-01	.4890-01	.7140-01	.9166	.2191-02	.3203-02	.4320	2.694	549.6
24	67.500	.23000	768.00	.5840-01	.4740-01	.6910-01	.9168	.2125-02	.3099-02	.4200	3.125	548.9
24	67.500	.25000	769.00	.2900-01	.2360-01	.3440-01	.9155	.1058-02	.1541-02	.2130	1.654	545.7
24	67.500	.27000	770.00	.4980-01	.4030-01	.5940-01	.9155	.1808-02	.2662-02	.3550	2.385	550.2
24	67.500	.29000	771.00	.4210-01	.3420-01	.5000-01	.9155	.1533-02	.2241-02	.3060	1.896	547.1
24	67.500	.30000	772.00	.5430-01	.4410-01	.6460-01	.9155	.1977-02	.2897-02	.3930	2.398	548.1
24	67.500	.31000	773.00	.5760-01	.4670-01	.6850-01	.9155	.2096-02	.3069-02	.4170	2.526	547.8
24	67.500	.32000	774.00	.6050-01	.4920-01	.7180-01	.9155	.2204-02	.3220-02	.4410	2.650	546.7
24	67.500	.32500	775.00	.5930-01	.4830-01	.7050-01	.9155	.2164-02	.3160-02	.4330	2.611	546.6
24	67.500	.33000	776.00	.5690-01	.4630-01	.6750-01	.9155	.2074-02	.3028-02	.4150	2.509	546.6
24	67.500	.33500	777.00	.5810-01	.4730-01	.6910-01	.9155	.2121-02	.3096-02	.4250	2.569	546.4
24	67.500	.34000	778.00	.5860-01	.4770-01	.6960-01	.9155	.2137-02	.3118-02	.4280	2.588	546.3
24	67.500	.34500	779.00	.5940-01	.4830-01	.7050-01	.9155	.2165-02	.3161-02	.4330	2.628	546.5
24	67.500	.35000	780.00	.5710-01	.4640-01	.6780-01	.9155	.2082-02	.3038-02	.4170	2.537	546.3
24	67.500	.35500	781.00	.5480-01	.4460-01	.6500-01	.9155	.1999-02	.2916-02	.4010	2.443	546.2
24	67.500	.36000	782.00	.5690-01	.4620-01	.6740-01	.9155	.2072-02	.3024-02	.4150	2.531	546.3
24	67.500	.36500	783.00	.5360-01	.4370-01	.6360-01	.9155	.1957-02	.2852-02	.3930	2.392	545.7
24	67.500	.37000	784.00	.5180-01	.4220-01	.6150-01	.9155	.1891-02	.2756-02	.3800	2.326	545.6
24	67.500	.37500	785.00	.5290-01	.4300-01	.6270-01	.9155	.1928-02	.2813-02	.3870	2.385	546.1
24	67.500	.38000	786.00	.5150-01	.4190-01	.6110-01	.9155	.1878-02	.2741-02	.3760	2.326	546.3
24	67.500	.39000	787.00	.5570-01	.4530-01	.6620-01	.9155	.2031-02	.2969-02	.4060	2.513	547.0
24	67.500	.40000	788.00	.5560-01	.4520-01	.6620-01	.9155	.2027-02	.2966-02	.4040	2.523	547.5
24	67.500	.50000	789.00	.4980-01	.3950-01	.5950-01	.9155	.1789-02	.2667-02	.3430	2.163	555.1
24	67.500	.60000	790.00	.4800-01	.3850-01	.5790-01	.9155	.1724-02	.2598-02	.3230	2.108	559.2
24	67.500	.70000	791.00	.4810-01	.3830-01	.5850-01	.9155	.1717-02	.2621-02	.3140	2.198	563.9

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F11)

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
24	67.500	.80000	792.00	.4810-01	.3850-01	.5800-01	.9155	.1727-02	.2600-02	.3240	2.025	558.9
24	67.500	.90000	793.00	.2420-01	.1950-01	.2920-01	.9155	.8728-03	.1308-02	.1660	1.062	557.0
24	78.000	.27000	794.00	.3990-01	.3240-01	.4780-01	.9145	.1454-02	.2141-02	.2890	2.058	548.0
24	78.000	.29000	795.00	.2810-01	.2290-01	.3340-01	.9145	.1028-02	.1499-02	.2090	1.287	543.7
25	78.000	.30000	796.00	.4780-01	.3890-01	.5700-01	.9145	.1744-02	.2556-02	.3490	2.119	544.6
25	78.000	.31000	797.00	.5050-01	.4120-01	.6030-01	.9145	.1845-02	.2702-02	.3700	2.249	544.2
25	78.000	.32000	798.00	.5220-01	.4260-01	.6230-01	.9145	.1908-02	.2791-02	.3840	2.319	543.7
25	78.000	.32500	799.00	.5080-01	.4140-01	.6050-01	.9145	.1855-02	.2713-02	.3740	2.262	543.6
25	78.000	.33000	800.00	.5270-01	.4300-01	.6280-01	.9145	.1926-02	.2814-02	.3880	2.352	543.3
25	78.000	.33500	801.00	.5340-01	.4350-01	.6360-01	.9145	.1949-02	.2850-02	.3930	2.378	543.5
25	78.000	.34000	802.00	.4880-01	.3980-01	.5810-01	.9145	.1783-02	.2602-02	.3600	2.183	542.8
25	78.000	.34500	803.00	.4920-01	.4010-01	.5860-01	.9145	.1799-02	.2626-02	.3640	2.209	542.8
25	78.000	.35000	804.00	.4960-01	.4050-01	.5910-01	.9145	.1814-02	.2648-02	.3670	2.227	542.8
25	78.000	.35500	805.00	.4960-01	.4050-01	.5910-01	.9145	.1815-02	.2647-02	.3680	2.233	542.4
25	78.000	.36000	806.00	.4940-01	.4040-01	.5880-01	.9145	.1809-02	.2635-02	.3670	2.238	541.9
25	78.000	.36500	807.00	.4830-01	.3940-01	.5740-01	.9145	.1765-02	.2574-02	.3570	2.183	542.5
25	78.000	.37000	808.00	.4640-01	.3780-01	.5520-01	.9145	.1696-02	.2474-02	.3430	2.102	542.5
25	78.000	.37500	809.00	.4870-01	.3980-01	.5800-01	.9145	.1782-02	.2602-02	.3600	2.206	542.8
25	78.000	.38000	810.00	.4870-01	.3970-01	.5800-01	.9145	.1780-02	.2597-02	.3600	2.216	542.7
25	78.000	.39000	811.00	.4330-01	.3530-01	.5150-01	.9145	.1582-02	.2310-02	.3200	1.974	542.9
25	78.000	.40000	812.00	.4570-01	.3730-01	.5440-01	.9145	.1672-02	.2440-02	.3380	2.089	542.6
44	90.000	.40000-01	985.00	.1746	.1396	.1669	.9592	.6248-02	.7469-02	1.154	7.473	555.0
44	90.000	.50000-01	986.00	.1792	.1435	.1742	.9558	.6424-02	.7799-02	1.194	7.688	554.9
44	90.000	.60000-01	987.00	.1560	.1241	.1541	.9524	.5557-02	.6899-02	1.008	6.590	559.4
44	90.000	.70000-01	988.00	.1924	.1519	.1933	.9491	.6802-02	.8653-02	1.199	7.984	564.5
44	90.000	.80000-01	989.00	.3099	.2354	.3181	.9460	.1054-01	.1424-01	1.624	11.28	586.6
44	90.000	.10000+00	990.00	.2619	.2061	.2769	.9400	.9224-02	.1240-01	1.603	10.35	567.0
44	90.000	.15000	991.00	.1386	.1101	.1571	.9272	.4929-02	.7034-02	.8890	6.482	560.4
25	90.000	.23000	813.00	.3870-01	.3150-01	.4610-01	.9144	.1414-02	.2065-02	.2860	2.085	542.5
25	90.000	.24000	814.00	.3120-01	.2550-01	.3740-01	.9136	.1141-02	.1675-02	.2300	1.867	543.1
25	90.000	.27000	816.00	.3230-01	.2630-01	.3870-01	.9136	.1181-02	.1734-02	.2380	1.696	543.2
25	90.000	.29000	817.00	.2970-01	.2430-01	.3550-01	.9136	.1087-02	.1591-02	.2210	1.377	541.6
25	90.000	.30000	818.00	.3930-01	.3210-01	.4700-01	.9136	.1437-02	.2107-02	.2910	1.780	542.7
25	90.000	.31000	819.00	.4040-01	.3300-01	.4840-01	.9136	.1480-02	.2168-02	.3000	1.823	542.2
25	90.000	.32000	820.00	.4080-01	.3330-01	.4880-01	.9136	.1494-02	.2189-02	.3030	1.836	542.2
25	90.000	.32500	821.00	.4260-01	.3480-01	.5090-01	.9136	.1558-02	.2281-02	.3160	1.910	542.0
25	90.000	.33000	822.00	.4230-01	.3450-01	.5050-01	.9136	.1548-02	.2264-02	.3150	1.910	541.4
25	90.000	.33500	823.00	.4210-01	.3440-01	.5030-01	.9136	.1542-02	.2254-02	.3140	1.910	541.2
25	90.000	.34000	824.00	.4320-01	.3530-01	.5160-01	.9136	.1582-02	.2311-02	.3230	1.950	541.0
25	90.000	.34500	825.00	.4250-01	.3470-01	.5070-01	.9136	.1556-02	.2274-02	.3170	1.921	541.2
25	90.000	.35000	826.00	.4150-01	.3400-01	.4960-01	.9136	.1522-02	.2224-02	.3100	1.882	541.0
25	90.000	.36000	828.00	.4120-01	.3370-01	.4920-01	.9136	.1510-02	.2206-02	.3080	1.860	541.2
25	90.000	.36500	829.00	.3480-01	.2840-01	.4160-01	.9136	.1275-02	.1865-02	.2590	1.572	541.5

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS) (RV7F11)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
25	90.000	.37000	830.00	.4050-01	.3310-01	.4830-01	.3136	.1484-02	.2166-02	.3030	1.844	540.6
25	90.000	.37500	831.00	.4210-01	.3440-01	.5020-01	.9136	.1542-02	.2249-02	.3150	1.928	540.4
25	90.000	.38000	832.00	.3980-01	.3260-01	.4760-01	.9136	.1460-02	.2132-02	.2980	1.822	540.8
25	90.000	.39000	833.00	.3870-01	.3170-01	.4620-01	.9136	.1419-02	.2072-02	.2900	1.792	540.6
25	90.000	.40000	834.00	.3870-01	.3160-01	.4620-01	.9136	.1418-02	.2070-02	.2890	1.793	540.9
25	90.000	.50000	835.00	.3740-01	.3040-01	.4490-01	.9136	.1364-02	.2012-02	.2730	1.724	545.1
25	90.000	.60000	836.00	.3700-01	.3010-01	.4430-01	.9136	.1350-02	.1984-02	.2720	1.814	543.6
25	90.000	.70000	837.00	.3260-01	.2640-01	.3940-01	.9136	.1182-02	.1766-02	.2300	1.617	550.2
25	90.000	.80000	838.00	.2990-01	.2430-01	.3600-01	.9136	.1089-02	.1613-02	.2160	1.340	546.9
25	90.000	.90000	839.00	.1920-01	.1560-01	.2310-01	.9136	.6985-03	.1037-02	.1380	.8790	547.9
25	112.50	.23000	840.00	.2540-01	.2080-01	.3030-01	.9130	.9304-03	.1358-02	.1910	1.548	539.3
25	112.50	.25000	841.00	.1250-01	.1030-01	.1490-01	.9130	.4595-03	.6695-03	.9500-01	.7390	538.3
25	112.50	.27000	842.00	.103 -01	.8400-02	.1230-01	.9130	.3777-03	.5499-03	.7800-01	.5500	537.9
25	112.50	.30000	843.00	.2190-01	.1790-01	.2620-01	.9130	.8022-03	.1173-02	.1650	.9830	539.8
25	112.50	.33000	844.00	.2360-01	.1930-01	.2830-01	.9130	.8668-03	.1268-02	.1780	1.074	540.1
25	112.50	.35000	845.00	.2700-01	.2210-01	.3230-01	.9130	.9917-03	.1449-02	.2030	1.252	539.7
25	112.50	.37000	846.00	.2750-01	.2250-01	.3290-01	.9130	.1008-02	.1473-02	.2070	1.280	539.6
25	112.50	.40000	847.00	.2570-01	.2100-01	.3070-01	.9130	.9423-03	.1374-02	.1940	1.216	538.7
25	112.50	.45000	848.00	.2530-01	.2070-01	.3020-01	.9130	.9287-03	.1355-02	.1910	1.208	538.8
25	112.50	.50000	849.00	.2320-01	.1900-01	.2780-01	.9130	.8494-03	.1245-02	.1730	1.116	541.1
25	112.50	.55000	850.00	.1760-01	.1440-01	.2110-01	.9130	.6442-03	.9443-03	.1310	.8800	541.0
25	112.50	.60000	851.00	.2200-01	.1800-01	.2640-01	.9130	.8086-03	.1182-02	.1660	1.115	539.8
25	112.50	.65000	852.00	.2370-01	.1940-01	.2830-01	.9130	.8681-03	.1270-02	.1780	1.213	540.3
25	112.50	.70000	853.00	.2900-01	.2360-01	.3490-01	.9130	.1060-02	.1564-02	.2130	1.497	543.9
25	112.50	.75000	854.00	.2310-01	.1880-01	.2770-01	.9130	.8427-03	.1241-02	.1700	1.105	543.1
25	112.50	.80000	855.00	.2110-01	.1720-01	.2520-01	.9130	.7710-03	.1131-02	.1570	1.023	541.4
25	112.50	.90000	856.00	.2860-01	.2330-01	.3420-01	.9130	.1046-02	.1535-02	.2130	1.386	541.2
25	125.40	.84000	857.00	.2930-01	.2400-01	.3520-01	.9130	.1075-02	.1575-02	.2190	1.358	541.0
25	125.40	.85000	858.00	.3070-01	.2500-01	.3670-01	.9130	.1122-02	.1647-02	.2280	1.423	541.4
25	125.40	.86000	859.00	.3120-01	.2550-01	.3730-01	.9130	.1141-02	.1674-02	.2320	1.459	541.5
25	125.40	.87000	860.00	.3050-01	.2490-01	.3660-01	.9130	.1118-02	.1642-02	.2270	1.430	541.8
25	125.40	.89000	861.00	.3340-01	.2730-01	.4010-01	.9130	.1222-02	.1797-02	.2480	1.559	542.4
25	125.40	.89000	862.00	.3340-01	.2720-01	.4000-01	.9130	.1220-02	.1795-02	.2470	1.564	542.6
25	125.40	.90000	863.00	.3130-01	.2550-01	.3750-01	.9130	.1144-02	.1683-02	.2320	1.476	542.4
25	125.40	.91000	864.00	.2210-01	.1810-01	.2650-01	.9130	.8097-03	.1187-02	.1650	1.203	541.2
25	125.40	.92600	865.00	.3180-01	.2590-01	.3820-01	.9130	.1161-02	.1714-02	.2330	1.692	544.1
25	129.30	.80000	866.00	.3010-01	.2460-01	.3610-01	.9130	.1104-02	.1617-02	.2250	1.420	540.8
25	129.30	.81000	867.00	.2900-01	.2370-01	.3480-01	.9130	.1064-02	.1560-02	.2170	1.358	541.2
25	129.30	.82000	868.00	.2790-01	.2280-01	.3340-01	.9130	.1022-02	.1498-02	.2090	1.307	540.9
25	129.30	.83000	869.00	.2910-01	.2380-01	.3480-01	.9130	.1065-02	.1562-02	.2170	1.364	541.2
25	135.00	.40000-01	870.00	.1345	.1084	.1368	.9465	.4858-02	.6132-02	.9330	5.980	552.9
25	135.00	.50000-01	871.00	.1386	.1120	.1432	.9431	.5021-02	.6419-02	.9770	6.234	550.4
25	135.00	.60000-01	872.00	.1219	.9820-01	.1281	.9399	.4402-02	.5741-02	.8450	5.591	553.1

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F11)

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
25	135.00	.70000-01	873.00	.2375	.1857	.2562	.9369	.8322-02	.1148-01	1.421	9.534	574.2
25	135.00	.10000+00	875.00	.1786	.1429	.1998	.9288	.6403-02	.8956-02	1.192	7.773	558.8
25	135.00	.15000	876.00	.8030-01	.6510-01	.9410-01	.9186	.2916-02	.4217-02	.5730	4.189	548.5
25	135.00	.20000	877.00	.3430-01	.2810-01	.4100-01	.9133	.1262-02	.1837-02	.2600	1.762	538.7
25	135.00	.35000	878.00	.1470-01	.1200-01	.1750-01	.9130	.5391-03	.7843-03	.1120	.6970	537.7
25	135.00	.40000	879.00	.1700-01	.1400-01	.2030-01	.9130	.6257-03	.9102-03	.1300	.8260	537.5
25	135.00	.50000	880.00	.1330-01	.1090-01	.1590-01	.9130	.4873-03	.7124-03	.1000+00	.5890	539.8
25	135.00	.55000	881.00	.1090-01	.8300-02	.1300-01	.9130	.3982-03	.5815-03	.8200-01	.5470	539.4
25	135.00	.60000	882.00	.1840-01	.1510-01	.2210-01	.9130	.6764-03	.9889-03	.1390	.9360	539.8
25	135.00	.65000	883.00	.2050-01	.1670-01	.2450-01	.9130	.7505-03	.1099-02	.1530	1.051	540.4
25	135.00	.70000	884.00	.2260-01	.1840-01	.2710-01	.9130	.8240-03	.1214-02	.1650	1.183	543.3
25	135.00	.75000	885.00	.2480-01	.2020-01	.2970-01	.9130	.9051-03	.1333-02	.1830	1.154	543.1
25	135.00	.80000	886.00	.2750-01	.2250-01	.3290-01	.9130	.1006-02	.1476-02	.2050	1.291	541.4
25	135.00	.84000	887.00	.2970-01	.2420-01	.3550-01	.9130	.1086-02	.1593-02	.2210	1.395	541.2
44	135.00	.85000	888.00	.3530-01	.2880-01	.4240-01	.9130	.1289-02	.1896-02	.2590	1.651	539.5
44	135.00	.86000	889.00	.3470-01	.2830-01	.4160-01	.9130	.1267-02	.1864-02	.2550	1.619	539.4
44	135.00	.87000	890.00	.3430-01	.2800-01	.4120-01	.9130	.1254-02	.1845-02	.2520	1.607	539.8
44	135.00	.88000	891.00	.3660-01	.2980-01	.4400-01	.9130	.1335-02	.1970-02	.2670	1.713	540.7
44	135.00	.89000	892.00	.3600-01	.2930-01	.4330-01	.9130	.1314-02	.1940-02	.2620	1.710	541.2
44	135.00	.90000	893.00	.3360-01	.2740-01	.4040-01	.9130	.1224-02	.1808-02	.2440	1.613	541.2
44	135.00	.91000	894.00	.2190-01	.1780-01	.2630-01	.9130	.7985-03	.1177-02	.1600	1.171	540.4
44	135.00	.92600	895.00	.3200-01	.2600-01	.3860-01	.9130	.1164-02	.1728-02	.2300	1.675	543.2
44	135.00	.95000	896.00	.3740-01	.3040-01	.4520-01	.9130	.1360-02	.2023-02	.2680	1.936	544.0
44	142.30	.42000	897.00	.1340-01	.1100-01	.1610-01	.9130	.4934-03	.7193-03	.1010	.6740	535.6
44	142.30	.43500	898.00	.1250-01	.1020-01	.1490-01	.9130	.4585-03	.6680-03	.9400-01	.5920	535.3
44	142.30	.45000	899.00	.1320-01	.1080-01	.1570-01	.9130	.4825-03	.7036-03	.9900-01	.6510	535.6
44	142.30	.50000	900.00	.1220-01	.1000-01	.1460-01	.9130	.4460-03	.6528-03	.9100-01	.6070	537.3
44	142.30	.60000	901.00	.1750-01	.1440-01	.2100-01	.9130	.6427-03	.9403-03	.1310	.8730	537.2
44	142.30	.70000	902.00	.2060-01	.1680-01	.2480-01	.9130	.7524-03	.1111-02	.1500	1.028	541.1
44	142.30	.80000	903.00	.3290-01	.2680-01	.3950-01	.9130	.1201-02	.1767-02	.2410	1.540	539.7
44	142.30	.87000	904.00	.2580-01	.2100-01	.3110-01	.9130	.9416-03	.1390-02	.1880	1.191	541.1
44	154.98	.42000	905.00	.1320-01	.1080-01	.1570-01	.9130	.4828-03	.7028-03	.9900-01	.6450	534.9
44	154.98	.43500	906.00	.1260-01	.1030-01	.1500-01	.9130	.4622-03	.6735-03	.9500-01	.6190	535.4
44	154.98	.45000	907.00	.1290-01	.1060-01	.1540-01	.9130	.4734-03	.6899-03	.9700-01	.6380	535.3
44	154.98	.50000	908.00	.1210-01	.9900-02	.1450-01	.9130	.4437-03	.6494-03	.9000-01	.6490	537.1
44	154.98	.94500	914.00	.4680-01	.3800-01	.5660-01	.9130	.1701-02	.2532-02	.3340	2.405	544.5
44	157.50	.70000-01	918.00	.1447	.1152	.1588	.9327	.5155-02	.7108-02	.9360	6.464	559.3
44	157.50	.80000-01	919.00	.1918	.1519	.2144	.9300	.6799-02	.9597-02	1.209	8.187	562.9
44	157.50	.10000+00	920.00	.1448	.1163	.1650	.9251	.5206-02	.7387-02	.9790	6.519	552.8
44	157.50	.20000	922.00	.2560-01	.2100-01	.3060-01	.9130	.9410-03	.1368-02	.1940	1.302	534.3
44	157.50	.42000	923.00	.1000-01	.8200-02	.1190-01	.9130	.3670-03	.5342-03	.7600-01	.4960	534.9
44	157.50	.43500	924.00	.1050-01	.8600-02	.1250-01	.9130	.3841-03	.5592-03	.7900-01	.5200	535.0
44	157.50	.45000	925.00	.1110-01	.9100-02	.1320-01	.9130	.4066-03	.5920-03	.8400-01	.5560	535.0

ORIGINAL PAGE IS
OF POOR QUALITY

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS) (RV7F11)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
44	157.50	.85000	926.00	.3340-01	.2720-01	.4010-01	.9130	.1219-02	.1794-02	.2450	1.590	539.8
44	157.50	.86000	927.00	.2770-01	.2260-01	.3330-01	.9130	.1010-02	.1489-02	.2020	1.316	540.5
44	157.50	.87000	928.00	.3670-01	.2990-01	.4410-01	.9130	.1338-02	.1973-02	.2680	1.747	540.6
44	157.50	.88000	929.00	.3480-01	.2830-01	.4180-01	.9130	.1267-02	.1872-02	.2530	1.659	541.2
44	157.50	.89000	930.00	.3920-01	.3190-01	.4720-01	.9130	.1426-02	.2111-02	.2830	1.869	542.1
44	157.50	.9[illegible]000	931.00	.3410-01	.2770-01	.4100-01	.9130	.1241-02	.1836-02	.2460	1.666	542.1
44	157.50	.91000	932.00	.2010-01	.1640-01	.2420-01	.9130	.7341-03	.1083-02	.1470	1.077	540.9
44	157.50	.92600	933.00	.3190-01	.2590-01	.3850-01	.9130	.1162-02	.1724-02	.2290	1.676	543.3
44	163.12	.41500	934.00	.7400-02	.6000-02	.8800-02	.9130	.2701-03	.3929-03	.5600-01	.3640	534.5
44	163.12	.42000	935.00	.7400-02	.6000-02	.8800-02	.9130	.2703-03	.3932-03	.5600-01	.3670	534.6
44	163.12	.43000	937.00	.8100-02	.6600-02	.9600-02	.9130	.2958-03	.4305-03	.6100-01	.4020	534.8
44	163.12	.44000	938.00	.8300-02	.6800-02	.9900-02	.9130	.3047-03	.4436-03	.6300-01	.4130	534.9
44	163.12	.44500	939.00	.8500-02	.7000-02	.1020-01	.9130	.3134-03	.4563-03	.6400-01	.4310	535.0
44	163.12	.45000	940.00	.8100-02	.6700-02	.9700-02	.9130	.2979-03	.4336-03	.6100-01	.4100	534.9
44	163.12	.50000	941.00	.1060-01	.8600-02	.1260-01	.9130	.3868-03	.5656-03	.7900-01	.5370	537.0
44	163.12	.60000	942.00	.1590-01	.1300-01	.1900-01	.9130	.5814-03	.8494-03	.1190	.7700	536.5
44	163.12	.70000	943.00	.2140-01	.1740-01	.2570-01	.9130	.7793-03	.1150-02	.1560	1.074	540.7
44	163.12	.80000	944.00	.2860-01	.2340-01	.3440-01	.9130	.1045-02	.1539-02	.2100	1.376	539.8
44	168.00	.35000	945.00	.6500-02	.5300-02	.7700-02	.9130	.2389-03	.3468-03	.4900-01	.3160	533.6
44	168.00	.36000	946.00	.7200-02	.5900-02	.8600-02	.9130	.2637-03	.3829-03	.5500-01	.3500	533.6
44	168.00	.37000	947.00	.7200-02	.5900-02	.8500-02	.9130	.2631-03	.3819-03	.5500-01	.3500	533.5
44	168.00	.38500	950.00	.6300-02	.5200-02	.7500-02	.9130	.2313-03	.335[illegible]-03	.4800-01	.3110	533.4
44	168.00	.39000	951.00	.7600-02	.6300-02	.9100-02	.9130	.2807-03	.4075-03	.5800-01	.3800	533.6
44	168.00	.39500	952.00	.6900-02	.5700-02	.8200-02	.9130	.2534-03	.3683-03	.5200-01	.3370	534.2
44	168.00	.40000	953.00	.5100-02	.4200-02	.6100-02	.9130	.1875-03	.2722-03	.3900-01	.2540	533.6
44	168.00	.40500	954.00	.7000-02	.5700-02	.8300-02	.9130	.2559-03	.3721-03	.5300-01	.3470	534.3
44	168.00	.41000	955.00	.5600-02	.4600-02	.6700-02	.9130	.2062-03	.2999-03	.4300-01	.2790	534.5
[illegible]	168.00	.41500	956.00	.6100-02	.5000-02	.7300-02	.9130	.2259-03	.3280-03	.4700-01	.3080	533.7
44	168.00	.42000	957.00	.7000-02	.5700-02	.8300-02	.9130	.2561-03	.3724-03	.5300-01	.3490	534.4
44	168.00	.42500	958.00	.7000-02	.5700-02	.8300-02	.9130	.2556-03	.3718-03	.5300-01	.3480	534.6
44	168.00	.43000	959.00	.7200-02	.5900-02	.8600-02	.9130	.2647-03	.3852-03	.5500-01	.3590	534.7
44	168.00	.44000	960.00	.9000-02	.7300-02	.1070-01	.9130	.3289-03	.4781-03	.6800-01	.4480	534.3
44	168.00	.44500	961.00	.6800-02	.5600-02	.8200-02	.9130	.2508-03	.3650-03	.5200-01	.3410	534.7
44	168.00	.45000	962.00	.8300-02	.6800-02	.9900-02	.9130	.3048-03	.4439-03	.6300-01	.4160	535.1
44	168.00	.45500	963.00	.7700-02	.6300-02	.9200-02	.9130	.2815-03	.4099-03	.5800-01	.3840	535.1
44	168.00	.46000	964.00	.5700-02	.4700-02	.6800-02	.9130	.2086-03	.3035-03	.4300-01	.2870	534.7
44	168.00	.47000	965.00	.9700-02	.7900-02	.1160-01	.9130	.3549-03	.5173-03	.7300-01	.4880	535.5
44	168.00	.48000	966.00	.1140-01	.9300-02	.1360-01	.9130	.4173-03	.6088-03	.8500-01	.5780	535.9
44	168.00	.49000	967.00	.1350-01	.1110-01	.1610-01	.9130	.4952-03	.7218-03	.1020	.6870	535.4
44	168.00	.85000	968.00	.3360-01	.2740-01	.4040-01	.9130	.1227-02	.1808-02	.2460	1.601	540.2
44	168.00	.86000	969.00	.3530-01	.2870-01	.4240-01	.9130	.1286-02	.1898-02	.2570	1.679	540.7
44	168.00	.87000	970.00	.3610-01	.2940-01	.4340-01	.9130	.1316-02	.1944-02	.2630	1 719	541.2
44	168.00	.88000	971.00	.3800-01	.3090-01	.4580-01	.9130	.1385-02	.2049-02	.2750	1.807	541.9

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F11)

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
44	168.00	.89000	972.00	.4070-01	.3310-01	.4900-01	.9130	.1480-02	.2194-02	.2930	1.951	542.6
44	168.00	.90000	973.00	.3760-01	.3050-01	.4530-01	.9130	.1366-02	.2027-02	.2700	1.841	543.1
44	168.00	.91000	974.00	.2360-01	.1920-01	.2840-01	.9130	.8589-03	.1270-02	.1710	1.250	541.8
44	168.00	.92600	975.00	.3580-01	.2910-01	.4320-01	.9130	.1300-02	.1935-02	.2560	1.854	544.2
44	168.00	.95000	976.00	.4430-01	.3600-01	.5360-01	.9130	.1610-02	.2398-02	.3160	2.276	544.6
23	180.00	.40000-01	600.00	.1080	.8750-01	.1136	.9393	.3922-02	.5090-02	.7710	4.958	547.3
23	180.00	.50000-01	601.00	.9230-01	.7510-01	.9860-01	.9361	.3363-02	.4416-02	.6710	4.329	544.5
23	180.00	.60000-01	602.00	.8610-01	.6990-01	.9340-01	.9331	.3131-02	.4184-02	.6190	4.121	546.3
23	180.00	.70000-01	603.00	.1316	.1051	.1461	.9303	.4711-02	.6544-02	.8720	5.913	558.8
23	180.00	.80000-01	604.00	.1987	.1571	.2254	.9277	.7037-02	.1010-01	1.248	8.039	566.6
23	180.00	.10000+00	605.00	.1344	.1080	.1547	.9230	.4840-02	.6930-02	.9190	6.569	554.1
23	180.00	.15000	606.00	.5150-01	.4200-01	.6120-01	.9150	.1882-02	.2743-02	.3790	2.762	542.5
23	180.00	.20000	607.00	.1790-01	.1470-01	.2140-01	.9130	.6580-03	.9567-03	.1360	.8950	536.6
23	180.00	.21000	608.00	.1190-01	.9700-02	.1420-01	.9130	.4358-03	.6343-03	.9000-01	.6260	537.1
23	180.00	.22000	609.00	.8900-02	.7300-02	.1070-01	.9130	.3286-03	.4788-03	.6800-01	.5070	537.8
23	180.00	.30000	610.00	.4400-02	.3600-02	.5300-02	.9130	.1633-03	.2369-03	.3400-01	.2340	535.6
23	180.00	.35000	611.00	.3100-02	.2600-02	.3700-02	.9130	.1143-03	.1656-03	.2400-01	.1600	535.1
23	180.00	.36000	612.00	.2900-02	.2400-02	.3500-02	.9130	.1076-03	.1559-03	.2200-01	.1520	534.9
23	180.00	.37000	613.00	.3800-02	.3100-02	.4500-02	.9130	.1389-03	.2013-03	.2900-01	.1960	535.1
23	180.00	.39000	617.00	.3700-02	.3000-02	.4400-02	.9130	.1359-03	.1969-03	.2800-01	.1910	535.1
23	180.00	.39500	618.00	.3900-02	.3200-02	.4700-02	.9130	.1450-03	.2103-03	.3000-01	.2050	535.6
23	180.00	.40500	620.00	.3700-02	.3000-02	.4400-02	.9130	.1352-03	.1961-03	.2800-01	.1910	535.4
23	180.00	.41000	621.00	.6200-02	.5100-02	.7300-02	.9130	.2266-03	.3286-03	.4700-01	.3190	535.5
23	180.00	.41500	622.00	.6800-02	.5600-02	.8100-02	.9130	.2501-03	.3628-03	.5200-01	.3510	535.7
23	180.00	.42500	624.00	.5800-02	.4800-02	.6900-02	.9130	.2129-03	.3094-03	.4400-01	.2980	536.3
23	180.00	.43000	625.00	.8800-02	.7200-02	.1050-01	.9130	.3228-03	.4691-03	.6700-01	.4530	536.4
23	180.00	.44000	626.00	.6900-02	.5600-02	.8200-02	.9130	.2529-03	.3674-03	.5300-01	.3550	536.3
23	180.00	.44500	627.00	.6500-02	.5400-02	.7800-02	.9130	.2403-03	.3491-03	.5000-01	.3400	536.4
23	180.00	.45500	629.00	.6300-02	.5200-02	.7500-02	.9130	.2322-03	.3376-03	.4800-01	.3330	536.6
23	180.00	.46000	630.00	.6400-02	.5200-02	.7600-02	.9130	.2346-03	.3410-03	.4900-01	.3290	536.5
23	180.00	.47000	631.00	.7300-02	.5900-02	.8700-02	.9130	.2664-03	3878-03	.5500-01	.3720	537.2
23	190.00	.49000	633.00	.8700-02	.7200-02	.1040-01	.9130	.3204-03	.4676-03	.6600-01	.4520	538.3
23	180.00	.50000	634.00	.7900-02	.6500-02	.9500-02	.9130	.2903-03	.4237-03	.6000-01	.4190	538.4
23	180.00	.55000	635.00	.9600-02	.7800-02	.1140-01	.9130	.3502-03	.5124-03	.7200-01	.4780	539.4
23	180.00	.60000	636.00	.1670-01	.1360-01	.1990-01	.9130	.6109-03	.8938-03	.1250	.8090	539.4
23	180.00	.65000	637.00	.2210-01	.1800-01	.2650-01	.9130	.8080-03	.1185-02	.1640	1.066	540.6
23	180.00	.70000	638.00	.2430-01	.1980-01	.2930-01	.9130	.8888-03	.1311-02	.1790	1.225	543.0
23	180.00	.75000	639.00	.2650-01	.2160-01	.3190-01	.9130	.9699-03	.1429-02	.1950	1.263	542.4
23	180.00	.80000	640.00	.3530-01	.2880-01	.4240-01	.9130	.1289-02	.1898-02	.2600	1.634	542.2
23	180.00	.85000	641.00	.4320-01	.3520-01	.5190-01	.9130	.1577-02	.2325-02	.3170	2.009	542.8
23	180.00	.86000	642.00	.4310-01	.3510-01	.5180-01	.9130	.1573-02	.2321-02	.3160	2.029	543.1
23	180.00	.87000	643.00	.5050-01	.4120-01	.6080-01	.9130	.1844-02	.2724-02	.3700	2.388	543.4
23	180.00	.88000	644.00	.5320-01	.4330-01	.6410-01	.9130	.1941-02	.2872-02	.3890	2.525	544.2

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS) (RV7F11)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
23	180.00	.89000	645.00	.4690-01	.3810-01	.5630-01	.9130	.1706-02	.2524-02	.3400	2.244	544.3
23	180.00	.90000	646.00	.3990-01	.3250-01	.4800-01	.9130	.1456-02	.2153-02	.2910	1.962	543.6
23	180.00	.92600	648.00	.4130-01	.3360-01	.4980-01	.9130	.1504-02	.2230-02	.2990	2.182	545.2
23	180.00	.95000	649.00	.4920-01	.4000-01	.5940-01	.9130	.1791-02	.2662-02	.3540	2.559	546.2
23	191.25	.35000	650.00	.4400-02	.3600-02	.5300-02	.9130	.1632-03	.2370-03	.3400-01	.2290	536.1
23	191.25	.36000	651.00	.3800-02	.3100-02	.4500-02	.9130	.1390-03	.2020-03	.2900-01	.1960	536.3
23	191.25	.37000	652.00	.4200-02	.3400-02	.5000-02	.9130	.1528-03	.2220-03	.3200-01	.2140	535.4
23	191.25	.37500	653.00	.3900-02	.3200-02	.4600-02	.9130	.1433-03	.2083-03	.3000-01	.2010	535.6
23	191.25	.38000	654.00	.4700-02	.3800-02	.5600-02	.9130	.1715-03	.2492-03	.3600-01	.2410	536.5
23	191.25	.38500	655.00	.4100-02	.3400-02	.4900-02	.9130	.1518-03	.2207-03	.3100-01	.2130	536.7
23	191.25	.39000	656.00	.4500-02	.3700-02	.5400-02	.9130	.1649-03	.2397-03	.3400-01	.2320	536.6
23	191.25	.39500	657.00	.1020-01	.8300-02	.1220-01	.9130	.3734-03	.5444-03	.7700-01	.5210	537.9
23	191.25	.40000	658.00	.8000-02	.6500-02	.9500-02	.9130	.2925-03	.4265-03	.6000-01	.4090	537.9
23	191.25	.40500	659.00	.5700-02	.4700-02	.6900-02	.9130	.2110-03	.3077-03	.4300-01	.2960	538.0
23	191.25	.41000	660.00	.7400-02	.6100-02	.8900-02	.9130	.2724-03	.3967-03	.5600-01	.3810	537.3
23	191.25	.41500	661.00	.8100-02	.6600-02	.9700-02	.9130	.2978-03	.4337-03	.6200-01	.4160	537.3
23	191.25	.42000	662.00	.8500-02	.7000-02	.1020-01	.9130	.3135-03	.4570-03	.6500-01	.4360	537.8
23	191.25	.42500	663.00	.8700-02	.7100-02	.1040-01	.9130	.3191-03	.4652-03	.6600-01	.4470	537.8
23	191.25	.43000	664.00	.1020-01	.8400-02	.1230-01	.9130	.3742-03	.5460-03	.7700-01	.5280	538.2
23	191.25	.44000	665.00	.1080-01	.8800-02	.1230-01	.9130	.3845-03	.5761-03	.8100-01	.5520	539.5
23	191.25	.45000	666.00	.9400-02	.7700-02	.1130-01	.9130	.3458-03	.5051-03	.7100-01	.4830	539.7
23	191.25	.45500	667.00	.1220-01	.1000-01	.1450-01	.9130	.4459-03	.6517-03	.9100-01	.6220	538.9
23	191.25	.46000	668.00	.1290-01	.1050-01	.1540-01	.9130	.4721-03	.6903-03	.9700-01	.6600	539.1
23	191.25	.47000	669.00	.1420-01	.1160-01	.1700-01	.9130	.5203-03	.7610-03	.1060	.7260	539.3
23	191.25	.48000	670.00	.1760-01	.1440-01	.2100-01	.9130	.6434-03	.9413-03	.1320	.9010	539.5
23	191.25	.49000	671.00	.1800-01	.1500-01	.2200-01	.9130	.6587-03	.1018-02	.1410	.9610	540.3
23	191.25	.50000	672.00	.1880-01	.1530-01	.2200-01	.9130	.6861-03	.1008-02	.1410	.9610	541.0
23	191.25	.60000	673.00	.3850-01	.3140-01	.4630-01	.9130	.1406-02	.2064-02	.2880	.1960	543.2
23	191.25	.70000	674.00	.3980-01	.3230-01	.4800-01	.9130	.1446-02	.2163-02	.2960	.2040	543.7
23	191.25	.80000	675.00	.3940-01	.3200-01	.4730-01	.9130	.1432-02	.2102-02	.2930	.1990	544.6
23	191.25	.88000	676.00	.4040-01	.3280-01	.4850-01	.9130	.1468-02	.2155-02	.3000	.2040	544.1
23	191.25	.89000	677.00	.4110-01	.3340-01	.4930-01	.9130	.1492-02	.2190-02	.3050	.2070	544.3
23	191.25	.90000	678.00	.3940-01	.3190-01	.4730-01	.9130	.1432-02	.2102-02	.2930	.1990	544.9
23	191.25	.92000	679.00	.4080-01	.3310-01	.4900-01	.9130	.1483-02	.2177-02	.3030	.2060	545.4
23	191.25	.94000	680.00	.4080-01	.3310-01	.4900-01	.9130	.1483-02	.2177-02	.3030	.2060	545.8
23	191.25	.96000	681.00	.4420-01	.3580-01	.5300-01	.9130	.1606-02	.2356-02	.3280	.2230	545.5
23	191.25	.98000	682.00	.4160-01	.3370-01	.4990-01	.9130	.1511-02	.2218-02	.3090	.2100	545.1
23	191.25	.99000	683.00	.4070-01	.3300-01	.4890-01	.9130	.1480-02	.2172-02	.3020	.2050	545.1
23	191.25	.99500	684.00	.4470-01	.3620-01	.5360-01	.9130	.1624-02	.2383-02	.3320	.2260	545.4
23	191.25	.99900	685.00	.4040-01	.3270-01	.4850-01	.9130	.1468-02	.2155-02	.3000	.2040	545.4
23	191.25	1.00000	686.00	.2700-02	.2200-02	.3200-02	.9130	.1163-03	.1708-03	.2380	.1620	545.4
23	191.25	1.00100	687.00	.2900-02	.2400-02	.3400-02	.9130	.1236-03	.1815-03	.2530	.1720	545.4
23	191.25	1.00200	688.00	.2600-02	.2100-02	.3100-02	.9130	.1127-03	.1655-03	.2300	.1570	545.4
23	191.25	1.00300	689.00	.2600-02	.2100-02	.3100-02	.9130	.1127-03	.1655-03	.2300	.1570	545.4

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F11)

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
23	197.00	.50000	691.00	.2420-01	.1970-01	.2900-01	.9130	.8836-03	.1300-02	.1790	1.203	541.8
23	197.00	.60000	692.00	.3720-01	.3030-01	.4470-01	.9130	.1357-02	.2002-02	.2730	1.762	543.0
23	197.00	.70000	693.00	.3670-01	.2980-01	.4430-01	.9130	.1337-02	.1984-02	.2650	1.800	545.5
25	197.00	.80000	694.00	.3950-01	.3190-01	.4780-01	.9130	.1429-02	.2139-02	.2770	1.740	545.0
25	197.00	.87000	695.00	.4260-01	.3440-01	.5160-01	.9130	.1539-02	.2312-02	.2960	1.885	546.4
44	197.00	.92600	696.00	.3500-01	.2830-01	.4250-01	.9130	.1266-02	.1901-02	.2440	1.785	546.1
24	209.80	.50000-01	699.00	.8370-01	.6810-01	.8940-01	.9360	.3051-02	.4008-02	.6110	3.882	546.5
24	209.80	.70000-01	700.00	.7820-01	.6330-01	.8630-01	.9302	.2837-02	.3868-02	.5550	3.745	551.1
24	209.80	.10000+00	701.00	.6820-01	.5520-01	.7810-01	.9229	.2476-02	.3499-02	.4870	3.099	550.0
24	209.80	.15000	702.00	.4310-01	.3510-01	.5140-01	.9149	.1573-02	.2302-02	.3150	2.255	546.3
24	209.80	.20000	703.00	.1400-01	.1150-01	.1680-01	.9130	.5148-03	.7533-03	.1060	.7050	541.5
24	209.80	.30000	704.00	.4700-02	.3800-02	.5600-02	.9130	.1710-03	.2494-03	.3500-01	.2510	540.1
24	209.80	.35000	705.00	.5100-02	.4200-02	.6100-02	.9130	.1882-03	.2741-03	.3900-01	.2630	539.3
24	209.80	.37500	706.00	.3700-02	.3100-02	.4400-02	.9130	.1370-03	.1994-03	.2800-01	.1960	539.0
24	209.80	.50000	707.00	.1230-01	.1010-01	.1470-01	.9130	.4510-03	.6608-03	.9200-01	.6330	542.1
24	209.80	.60000	708.00	.2080-01	.1700-01	.2460-01	.9130	.7618-03	.1113-02	.1570	1.003	540.8
24	209.80	.70000	709.00	.2520-01	.2050-01	.3020-01	.9130	.9206-03	.1356-02	.1860	1.189	544.3
24	209.80	.80000	710.00	.3050-01	.2490-01	.3660-01	.9130	.1116-02	.1641-02	.2270	1.415	543.5
24	209.80	.87000	711.00	.3840-01	.3130-01	.4630-01	.9130	.1403-02	.2073-02	.2820	1.784	545.7
24	209.80	.92600	712.00	.3510-01	.2850-01	.4220-01	.9130	.1280-02	.1893-02	.2570	1.867	546.1
24	217.70	.50000-01	715.00	.9800-01	.7950-01	.1044	.9366	.3566-02	.4682-02	.7080	4.618	548.0
24	217.70	.70000-01	716.00	.1561	.1224	.1747	.9307	.5488-02	.7830-02	.9490	6.390	573.7
24	217.70	.10000+00	717.00	.1425	.1142	.1641	.9234	.5122-02	.7355-02	.9650	6.222	558.3
24	217.70	.15000	718.00	.4960-01	.4030-01	.5910-01	.9152	.1807-02	.2650-02	.3590	2.629	547.7
24	217.70	.20000	719.00	.1980-01	.1620-01	.2360-01	.9130	.7267-03	.1060-02	.1500	1.015	540.1
24	217.70	.35000	721.00	.5700-02	.4600-02	.6800-02	.9130	.2082-03	.3028-03	.4300-01	.3010	538.8
24	217.70	.37500	722.00	.4800-02	.3900-02	.5700-02	.9130	.1771-03	.2575-03	.3700-01	.2560	538.8
24	217.70	.50000	723.00	.1010-01	.8300-02	.1210-01	.9130	.3707-03	.5424-03	.7600-01	.5270	541.4
24	217.70	.60000	724.00	.1490-01	.1220-01	.1790-01	.9130	.5488-03	.8005-03	.1130	.7270	540.1
24	217.70	.70000	725.00	.1800-01	.1470-01	.2160-01	.9130	.6580-03	.9665-03	.1340	.8530	543.2
24	217.70	.80000	726.00	.2060-01	.1690-01	.2470-01	.9130	.7560-03	.1109-02	.1540	.9720	542.5
24	217.70	.87000	727.00	.2990-01	.2440-01	.3590-01	.9130	.1093-02	.1611-02	.2210	1.413	544.6
24	217.70	.92600	728.00	.3040-01	.2470-01	.3650-01	.9130	.1108-02	.1637-02	.2230	1.622	545.5

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = 10.00 BETA = -6.000 GRIT = 3.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
20	5.500	5.012	10.01	6.000	-31.00	178.0	.1910	739.0	104.8	4.052	2758.	.1532-03
21	5.500	4.967	10.02	6.000	-31.00	177.8	.1910	742.0	105.3	4.046	2765.	.1523-03
22	5.500	4.968	10.03	6.000	-31.00	178.0	.1910	743.0	105.4	4.051	2766.	.1523-03
43	5.500	4.989	10.02	6.000	-31.00	178.0	.1910	741.0	105.1	4.052	2763.	.1528-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
20	.8434-07	.4476-01	.1359-01
21	.8477-07	.4476-01	.1364-01
22	.8482-07	.4479-01	.1364-01
43	.8460-07	.4478-01	.1361-01

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
43	.00000	.12000-01	977.00	.5681	.4057	.4601	.9793	.1817-01	.2060-01	2.353	14.45	611.3
43	.00000	.15100-01	978.00	.5196	.3843	.4350	.9776	.1721-01	.1948-01	2.447	16.33	598.6
43	.00000	.18000-01	979.00	.4763	.3575	.4050	.9765	.1601-01	.1813-01	2.378	16.06	592.3
43	.00000	.24000-01	980.00	.3953	.3019	.3433	.9745	.1352-01	.1537-01	2.119	13.94	584.1
43	.00000	.33000-01	981.00	.3429	.2655	.3034	.9724	.1189-01	.1358-01	1.952	12.33	576.7
21	.00000	.40000-01	737.00	.2350	.1863	.2111	.9717	.8339-02	.9447-02	1.492	9.656	563.3
21	.00000	.45000-01	738.00	.2318	.1837	.2098	.9700	.8221-02	.9391-02	1.469	9.547	563.5
21	.00000	.60000-01	739.00	.2115	.1667	.1959	.9648	.7461-02	.8767-02	1.307	8.699	567.0
21	.00000	.70000-01	740.00	.3336	.2532	.3110	.9615	.1133-01	.1392-01	1.744	11.55	588.4
21	.00000	.80000-01	741.00	.3915	.2933	.3712	.9582	.1313-01	.1662-01	1.943	13.79	594.3
21	.00000	.10000+00	742.00	.3279	.2534	.3245	.9518	.1134-01	.1453-01	1.853	12.18	578.9
21	.00000	.12500	743.00	.2364	.1817	.2450	.9442	.8131-02	.1097-01	1.303	9.306	582.1
21	.00000	.15000	744.00	.2034	.1593	.2188	.9372	.7132-02	.9794-02	1.222	8.396	570.9
21	.00000	.17500	745.00	.1389	.1104	.1541	.9309	.4941-02	.6896-02	.8930	6.665	561.5
21	.00000	.20000	746.00	.1052	.8450-01	.1197	.9253	.3783-02	.5357-02	.7140	5.089	553.6
21	.00000	.21500	747.00	.8760-01	.7060-01	.1012	.9224	.3158-02	.4530-02	.6010	4.155	551.9

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(FV7F12)

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
21	.00000	.23000	748.00	.7420-01	.5980-01	.8700-01	.9197	.2675-02	.3893-02	.5090	3.536	551.8
21	.00000	.24000	749.00	.6490-01	.5230-01	.7680-01	.9181	.2340-02	.3436-02	.4460	3.356	551.7
21	.00000	.25000	750.00	.3680-01	.2980-01	.4330-01	.9181	.1335-02	.1940-02	.2600	2.100	547.7
21	.00000	.30000	751.00	.7250-01	.5840-01	.8570-01	.9181	.2615-02	.3835-02	.5000	3.271	551.2
21	.00000	.35000	752.00	.7280-01	.5880-01	.8590-01	.9181	.2630-02	.3844-02	.5060	3.195	549.8
21	.00000	.40000	753.00	.6980-01	.5630-01	.8240-01	.9181	.2520-02	.3688-02	.4830	3.102	550.5
21	.00000	.50000	754.00	.6300-01	.5030-01	.7520-01	.9181	.2251-02	.3365-02	.4130	2.685	559.8
21	.00000	.60000	755.00	.6240-01	.4950-01	.7490-01	.9181	.2214-02	.3353-02	.3960	2.519	563.3
21	.00000	.70000	756.00	.5920-01	.4620-01	.7200-01	.9181	.2070-02	.3221-02	3520	2.294	572.2
21	.00000	.80000	757.00	.5760-01	.4540-01	.6950-01	.9181	.203?-02	.3112-02	.3550	2.202	567.4
21	.00000	.90000	758.00	.2980-01	.2360-01	.3580-01	.9181	.1056-02	.1605-02	.1890	1.209	564.0
21	55.000	.22000	759.00	.8840-01	.7110-01	.1024	.9221	.3183-02	.4581-02	.6030	4.470	552.9
21	55.000	.25000	760.00	.4320-01	.3490-01	.5070-01	.9187	.1563-02	.2268-02	.3030	2.373	548.3
21	55.000	.27000	761.00	.5840-01	.4680-01	.6900-01	.9187	.2097-02	.3088-02	.3940	2.920	554.4
21	55.000	.30000	762.00	.8120-01	.6550-01	.9560-01	.9187	.2931-02	.4277-02	.5610	3.368	550.8
21	55.000	.32000	763.00	.8330-01	.6720-01	.9800-01	.9187	.3006-02	.4386-02	.5770	3.406	550.5
21	55.000	.34000	764.00	.7880-01	.6350-01	.9260-01	.9187	.2844-02	.4147-02	.5460	3.235	550.2
21	55.000	.38000	766.00	.7750-01	.6250-01	.9120-01	.9187	.2798-02	.4080-02	.5370	3.261	550.2
21	55.000	.40000	767.00	.7610-01	.6140-01	.8960-01	.9187	.2748-02	.4010-02	.5270	3.288	550.5
21	67.500	.23000	768.00	.7420-01	.5980-01	.8710-01	.9192	.2676-02	.3900-02	.5110	3.796	551.2
21	67.500	.25000	769.00	.4050-01	.3290-01	.4770-01	.9177	.1471-02	.2137-02	.2890	2.247	546.1
21	67.500	.27000	770.00	.6110-01	.4920-01	.7260-01	.9177	.2201-02	.3248-02	.4180	3.036	552.6
21	67.500	.29000	771.00	.4720-01	.3820-01	.5570-01	.9177	.1711-02	.2494-02	.3330	2.066	547.4
21	67.500	.30000	772.00	.7250-01	.5850-01	.8570-01	.9177	.2620-02	.3837-02	.5050	3.080	549.6
21	67.500	.31000	773.00	.6970-01	.5630-01	.8240-01	.9177	.2521-02	.3688-02	.4870	2.947	549.2
21	67.500	.32000	774.00	.6730-01	.5440-01	.7960-01	.9177	.2436-02	.3555-02	.4730	2.845	548.0
21	67.500	.32500	775.00	.6770-01	.5480-01	.7990-01	.9177	.2452-02	.3576-02	.4770	2.873	547.8
21	67.500	.33000	776.00	.6900-01	.5580-01	.8140-01	.9177	.2497-02	.3643-02	.4850	2.932	548.0
21	67.500	.33500	777.00	.7130-01	.5770-01	.8410-01	.9177	.2581-02	.3765-02	.5020	3.031	547.9
21	67.500	.34000	778.00	.6930-01	.5610-01	.8180-01	.9177	.2510-02	.3661-02	.4880	2.950	547.8
21	67.500	.34500	779.00	.6850-01	.5540-01	.8090-01	.9177	.2482-02	.3621-02	.4820	2.921	548.0
21	67.500	.35000	780.00	.6930-01	.5610-01	.8170-01	.9177	.2509-02	.3658-02	.4880	2.967	547.7
21	67.500	.35500	781.00	.6880-01	.5570-01	.8120-01	.9177	.2492-02	.3636-02	.4840	2.949	548.0
21	67.500	.36000	782.00	.6710-01	.5430-01	7920-01	.9177	.2431-02	.3547-02	.4720	2.877	548.0
21	67.500	.36500	783.00	.6810-01	.5520-01	.8030-01	.9177	.2469-02	.3596-02	.4820	2.928	547.2
21	67.500	.37000	784.00	.6780-01	.5490-01	.7990-01	.9177	.2458-02	.3577-02	.4800	2.934	546.9
21	67.500	.37500	785.00	.6590-01	.5330-01	.7770-01	.9177	.2387-02	.3480-02	.4640	2.861	547.7
21	67.500	.38000	786.00	.6650-01	.5380-01	.7850-01	.9177	.2409-02	.3515-02	.4680	2.889	548.1
21	67.500	.39000	787.00	.6550-01	.5290-01	.7730-01	.9177	.2369-02	.3459-02	.4590	2.843	548.4
21	67.500	.40000	788.00	.6300-01	.5100-01	.7440-01	.9177	.2281-02	.3332-02	.4420	2.761	548.5
21	67.500	.50000	789.00	.6210-01	.4980-01	.7390-01	.9177	.2227-02	.3308-02	.4160	2.658	555.3
21	67.500	.60000	790.00	.6170-01	.4900-01	.7410-01	.9177	.2191-02	.3317-02	.3950	2.570	562.2
21	67.500	.70000	791.00	.5800-01	.4530-01	.7070-01	.9177	.2028-02	.3165-02	.3450	2.407	572.1

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS) (RV7F12)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
21	67.500	.80000	792.00	.6020-01	.4750-01	.7280-01	.9177	.2127-02	.3259-02	.3740	2.328	556.4
21	67.500	.90000	793.00	.2790-01	.2210-01	.3350-01	.9177	.9901-03	.1500-02	.1780	1.139	562.5
21	78.000	.27000	794.00	.5770-01	.4660-01	.6880-01	.9165	.2084-02	.3080-02	.4000	2.845	550.5
21	78.000	.29000	795.00	.4980-01	.4030-01	.5900-01	.9165	.1808-02	.2640-02	.3540	2.183	546.2
22	78.000	.30000	796.00	.6430-01	.5210-01	.7640-01	.9165	.2334-02	.3421-02	.4560	2.760	547.6
22	78.000	.31000	797.00	.6560-01	.5310-01	.7780-01	.9165	.2380-02	.3483-02	.4660	2.823	547.0
22	78.000	.32000	798.00	.6490-01	.5260-01	.7690-01	.9165	.2357-02	.3446-02	.4630	2.790	546.4
22	78.000	.32500	799.00	.6390-01	.5180-01	.7580-01	.9165	.2321-02	.3394-02	4560	2.754	546.5
22	78.000	.33000	800.00	.6450-01	.5230-01	.7640-01	.9165	.2343-02	.3423-02	.4610	2.787	546.1
22	78.000	.33500	801.00	.6580-01	.5330-01	.7790-01	.9165	.2388-02	.3491-02	.4690	2.835	546.4
22	78.000	.34000	802.00	.6250-01	.5070-01	.7400-01	.9165	.2273-02	.3316-02	.4480	2.712	545.5
22	78.000	.34500	803.00	.6180-01	.5010-01	.7320-01	.9165	.2246-02	.3277-02	4430	2.685	545.7
22	78.000	.35000	804.00	.6210-01	.5040-01	.7350-01	.9165	.2256-02	.3292-02	.4450	2.697	545.7
22	78.000	.35500	805.00	.6180-01	.5020-01	.7310-01	.9165	.2247-02	.3276-02	.4440	2.690	545.3
22	78.000	.36000	806.00	.6050-01	.4910-01	.7160-01	.9165	.2201-02	.3206-02	.4360	2.652	544.8
22	78.000	.36500	807.00	.6230-01	.5050-01	.7370-01	.9165	.2263-02	.3302-02	.4460	2.723	545.5
22	78.000	.37000	808.00	.6230-01	.5060-01	.7380-01	.9165	.2265-02	.3306-02	.4470	2.731	545.7
22	78.000	.37500	809.00	.5810-01	.4720-01	.6890-01	.9165	.2113-02	.3084-02	.4160	2.547	545.7
22	78.000	.38000	810.00	.5940-01	.4820-01	.7030-01	.9165	.2158-02	.3151-02	.4250	2.612	545.9
22	78.000	.39000	811.00	.5920-01	.4800-01	.7010-01	.9165	.2151-02	.3141-02	.4230	2.610	545.9
22	78.000	.40000	812.00	.6090-01	.4940-01	.7210-01	.9165	.2212-02	.3231-02	.4350	2.681	546.1
43	90.000	.40000-01	985.00	.1903	.1516	.1773	.9644	.6786-02	.7939-02	1.233	7.973	559.1
43	90.000	.50000-01	986.00	.2009	.1605	.1904	.9609	.7181-02	.8526-02	1.317	8.474	557.4
43	90.000	.60000-01	987.00	.1782	.1410	.1714	.9575	.6314-02	.7674-02	1.121	7.316	563.3
43	90.000	.70000-01	988.00	.2447	.1914	.2391	.9542	.8570-02	.1070-01	1.458	9.683	570.7
43	90.000	.80000-01	989.00	.3749	.2812	.3725	.9510	.1259-01	.1668-01	1.864	12.91	592.7
43	90.000	.10000+00	990.00	.2865	.2240	.2950	.9448	.1003-01	.1321-01	1.703	10.98	571.0
43	90.000	.15000	991.00	.1564	.1236	.1736	.9313	.5535-02	.7774-02	.9780	7.121	564.1
22	90.000	.23000	813.00	.5360-01	.4320-01	.6350-01	.9163	.1948-02	.2846-02	.3840	2.790	545.9
22	90.000	.24000	814.00	.4680-01	.3900-01	.5590-01	.9152	.1700-02	.2502-02	.3350	2.707	546.0
22	90.000	.27000	816.00	.4650-01	.3760-01	.5560-01	.9152	.1686-02	.2490-02	.3290	2.339	547.5
22	90.000	.29000	817.00	.4230-01	.3440-01	.5040-01	.9152	.1540-02	.2259-02	.3050	1.897	544.7
22	90.000	.30000	818.00	.5350-01	.4340-01	.6380-01	.9152	.1945-02	.2859-02	.3840	2.346	545.6
22	90.000	.31000	819.00	.5510-01	.4470-01	.6560-01	.9152	.2003-02	.2939-02	.3960	2.404	544.9
22	90.000	.32000	820.00	.5410-01	.4390-01	.6440-01	.9152	.1967-02	.2886-02	.3890	2.356	544.9
22	90.000	.32500	821.00	.6040-01	.4910-01	.7200-01	.9152	.2200-02	.3223-02	.4370	2.636	544.3
22	90.000	.33000	822.00	.5420-01	.4400-01	.6450-01	.9152	.1973-02	.2888-02	.3920	2.375	543.9
22	90.000	.33500	823.00	.5610-01	.4560-01	.6670-01	.9152	.2044-02	.2990-02	.4070	2.472	543.5
22	90.000	.34000	824.00	.6540-01	.5310-01	.7790-01	.9152	.2377-02	.3491-02	.4690	2.831	545.3
22	90.000	.34500	825.00	.5570-01	.4540-01	.6630-01	.9152	.2031-02	.2971-02	.4050	2.450	543.6
22	90.000	.35000	826.00	.5430-01	.4420-01	.6470-01	.9152	.1981-02	.2896-02	.3950	2.392	543.4
22	90.000	.35000	828.00	.5500-01	.4470-01	.6540-01	.9152	.2002-02	.2929-02	.3990	2.408	543.6
22	90.000	.36500	829.00	.6910-01	.5620-01	.8220-01	.9152	.2519-02	.3682-02	.5030	3.044	543.2

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F12)

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DF3. R /SEC	TW DEG. R
22	90.000	.37000	830.00	.5380-01	.4380-01	.6400-01	.9152	.1962-02	.2866-02	.3920	2.381	543.0
22	90.000	.37500	831.00	.5410-01	.4400-01	.6430-01	.9152	.1973-02	.2881-02	.3940	2.409	542.8
22	90.000	.38000	832.00	.5330-01	.4340-01	.6340-01	.9152	.1942-02	.2838-02	.3870	2.366	543.2
22	90.000	.39000	833.00	.5050-01	.4110-01	.6010-01	.9152	.1842-02	.2692-02	.3680	2.269	543.2
22	90.000	.40000	834.00	.5310-01	.4320-01	.6320-01	.9152	.1935-02	.2830-02	.3850	2.386	543.5
22	90.000	.50000	835.00	.5000-01	.4040-01	.5990-01	.9152	.1809-02	.2681-02	.3510	2.214	549.0
22	90.000	.60000	836.00	.4490-01	.3620-01	.5380-01	.9152	.1623-02	.2410-02	.3130	2.083	549.8
22	90.000	.70000	837.00	.4310-01	.3440-01	.5230-01	.9152	.1541-02	.2343-02	.2840	1.987	558.5
22	90.000	.80000	838.00	.4310-01	.3460-01	.5200-01	.9152	.1550-02	.2331-02	.2920	1.605	554.6
22	90.000	.90000	839.00	.2210-01	.1780-01	.2670-01	.9152	.7962-03	.1196-02	.1500	.9560	554.2
22	112.50	.23000	840.00	.3450-01	.2810-01	.4120-01	.9138	.1260-02	.1845-02	.2540	2.055	541.0
22	112.50	.25000	841.00	.2190-01	.1790-01	.2620-01	.9133	.8012-03	.1172-02	.1630	1.270	539.1
22	112.50	.27000	842.00	.1660-01	.1360-01	.1990-01	.9133	.6077-03	.8901-03	.1230	.8660	539.7
22	112.50	.30000	843.00	.3540-01	.2890-01	.4250-01	.9133	.1295-02	.1903-02	.2610	1.558	541.1
22	112.50	.33000	844.00	.3820-01	.3110-01	.4580-01	.9133	.1394-02	.2050-02	.2810	1.698	541.3
22	112.50	.35000	845.00	.3730-01	.3050-01	.4470-01	.9133	.1366-02	.2004-02	.2760	1.698	540.5
22	112.50	.37000	846.00	.3460-01	.2840-01	.4170-01	.9133	.1272-02	.1866-02	.2570	1.591	540.4
22	112.50	.40000	847.00	.3530-01	.2890-01	.4230-01	.9133	.1294-02	.1894-02	.2630	1.646	539.4
22	112.50	.45000	848.00	.3180-01	.2600-01	.3800-01	.9133	.1164-02	.1704-02	.2360	1.491	539.6
22	112.50	.50000	849.00	.3170-01	.2590-01	.3810-01	.9133	.1159-02	.1706-02	.2330	1.499	542.0
22	112.50	.55000	850.00	.2640-01	.2150-01	.3170-01	.9133	.9650-03	.1422-02	.1940	1.297	542.1
22	112.50	.60000	851.00	.2960-01	.2410-01	.3550-01	.9133	.1080-02	.1591-02	.2170	1.454	542.2
22	112.50	.65000	952.00	.3010-01	.2450-01	.3610-01	.9133	.1096-02	.1618-02	.2190	1.491	543.1
22	112.50	.70000	853.00	.3290-01	.2670-01	.3980-01	.9133	.1195-02	.1781-02	.2340	1.644	546.8
22	112.50	.75000	854.00	.3250-01	.2640-01	.3930-01	.9133	.1183-02	.1759-02	.2330	1.509	546.1
22	112.50	.80000	855.00	.3910-01	.3180-01	.4710-01	.9133	.1422-02	.2109-02	.2810	1.832	544.9
22	112.50	.90000	856.00	.2820-01	.2300-01	.3400-01	.9133	.1028-02	.1523-02	.2040	1.324	544.4
22	125.40	.84000	857.00	.3390-01	.2770-01	.4070-01	.9130	.1241-02	.1821-02	.2520	1.563	539.8
22	125.40	.85000	858.00	.3390-01	.2770-01	.4060-01	.9130	.1240-02	.1820-02	.2510	1.565	540.2
22	125.40	.86000	859.00	.3410-01	.2780-01	.4080-01	.9130	.1245-02	.1830-02	.2520	1.585	540.4
22	125.40	.87000	860.00	.3330-01	.2710-01	.3990-01	.9130	.1216-02	.1787-02	.2460	1.551	540.5
22	125.40	.88000	861.00	.3390-01	.2770-01	.4070-01	.9130	.1240-02	.1824-02	.2500	1.577	541.0
22	125.40	.89000	862.00	.3090-01	.2520-01	.3710-01	.9130	.1128-02	.1661-02	.2270	1.438	541.5
22	125.40	.90000	863.00	.2980-01	.2430-01	.3580-01	.9130	.1091-02	.1605-02	.2200	1.403	541.0
22	125.40	.91000	864.00	.2220-01	.1810-01	.2660-01	.9130	.8113-03	.1190-02	.1650	1.202	539.7
22	125.40	.92600	865.00	.2910-01	.2370-01	.3490-01	.9130	.1061-02	.1564-02	.2130	1.548	541.9
22	129.30	.80000	866.00	.3310-01	.2700-01	.3960-01	.9130	.1211-02	.1776-02	.2460	1.552	539.6
22	129.30	.81000	867.00	.3390-01	.2770-01	.4070-01	.9130	.1242-02	.1823-02	.2520	1.579	540.0
22	129.30	.82000	868.00	.3310-01	.2710-01	.3970-01	.9130	.1212-02	.1778-02	.2460	1.544	539.7
22	129.30	.83000	869.00	.3360-01	.2740-01	.4020-01	.9130	.1229-02	.1802-02	.2490	1.569	539.7
22	135.00	.40000-01	870.00	.1470	.1181	.1473	.9496	.5290-02	.6598-02	.9990	6.400	553.9
22	135.00	.50000-01	871.00	.1477	.1190	.1504	.9463	.5331-02	.6737-02	1.019	6.500	551.6
22	135.00	.60000-01	872.00	.1394	.1116	.1444	.9430	.5001-02	.6469-02	.9330	6.164	556.3

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS) (RV7F12)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
22	135.00	.70000-01	873.00	.2301	.1779	.2446	.9399	.7968-02	.1096-01	1.304	8.727	579.1
22	135.00	.10000+00	875.00	.1898	.1514	.2093	.9315	.6783-02	.9375-02	1.247	8.137	558.8
22	135.00	.15000	876.00	.9670-01	.7800-01	.1125	.9206	.3494-02	.5038-02	.6720	4.908	550.5
22	135.00	.20000	877.00	.4060-01	.3320-01	.4840-01	.9141	.1488-02	.2168-02	.3030	2.048	539.3
22	135.00	.35000	878.00	.2290-01	.1880-01	.2740-01	.9130	.8401-03	.1226-02	.1720	1.077	537.4
22	135.00	.40000	879.00	.1970-01	.1610-01	.2360-01	.9130	.7221-03	.1055-02	.1480	.9420	538.0
22	135.00	.50000	880.00	.1930-01	.1570-01	.2310-01	.9130	.7046-03	.1034-02	.1430	.9850	539.9
22	135.00	.55000	881.00	.2140-01	.1750-01	.2570-01	.9130	.7843-03	.1150-02	.1590	1.065	539.6
22	135.00	.60000	882.00	.2890-01	.2360-01	.3470-01	.9130	.1058-02	.1553-02	.2150	1.449	539.7
22	135.00	.65000	883.00	.3160-01	.2580-01	.3790-01	.9130	.1156-02	.1698-02	.2340	1.600	540.5
22	135.00	.70000	884.00	.3360-01	.2740-01	.4050-01	.9130	.1227-02	.1813-02	.2460	1.750	542.6
22	135.00	.75000	885.00	.3060-01	.2500-01	.3680-01	.9130	.1118-02	.1650-02	.2240	1.417	542.2
22	135.00	.80000	886.00	.3200-01	.2610-01	.3840-01	.9130	.1171-02	.1721-02	.2370	1.493	540.5
22	135.00	.84000	887.00	.3190-01	.2600-01	.3820-01	.9130	.1166-02	.1713-02	.2360	1.490	540.2
43	135.00	.85000	888.00	.2830-01	.2310-01	.3390-01	.9130	.1034-02	.1518-02	.2090	1.332	538.5
43	135.00	.86000	889.00	.3280-01	.2680-01	.3930-01	.9130	.1198-02	.1759-02	.2420	1.536	538.8
43	135.00	.87000	890.00	.3110-01	.2540-01	.3730-01	.9130	.1137-02	.1671-02	.2290	1.462	539.2
43	135.00	.88000	891.00	.3470-01	.2830-01	.4170-01	.9130	.1268-02	.1868-02	.2550	1.633	540.1
43	135.00	.89000	892.00	.3190-01	.2600-01	.3830-01	.9130	.1163-02	.1715-02	.2330	1.520	540.6
43	135.00	.90000	893.00	.2910-01	.2370-01	.3500-01	.9130	.1063-02	.1567-02	.2130	1.408	540.3
43	135.00	.91000	894.00	.1930-01	.1580-01	.2320-01	.9130	.7055-03	.1037-02	.1420	1.042	539.1
43	135.00	.92600	895.00	.2650-01	.2150-01	.3190-01	.9130	.9646-03	.1427-02	.1920	1.398	541.9
43	135.00	.95000	896.00	.3720-01	.3020-01	.4480-01	.9130	.1353-02	.2006-02	.2680	1.940	542.7
43	142.30	.42000	897.00	.2670-01	.2180-01	.3190-01	.9130	.9783-03	.1428-02	.2000	1.294	536.2
43	142.30	.43500	898.00	.2780-01	.2270-01	.3320-01	.9130	.1019-02	.1486-02	.2090	1.312	535.8
43	142.30	.45000	899.00	.2580-01	.2110-01	.3080-01	.9130	.9455-03	.1380-02	.1930	1.273	536.2
43	142.30	.50000	900.00	.2670-01	.2180-01	.3200-01	.9130	.9769-03	.1431-02	.1980	1.328	537.7
43	142.30	.60000	901.00	.3360-01	.2750-01	.4030-01	.9130	.1232-02	.1803-02	.2500	1.671	537.5
43	142.30	.70000	902.00	.3630-01	.2960-01	.4350-01	.9130	.1325-02	.1954-02	.2650	1.817	540.5
43	142.30	.80000	903.00	.3800-01	.3100-01	.4550-01	.9130	.1388-02	.2040-02	.2800	1.788	539.0
43	142.30	.87000	904.00	.3300-01	.2690-01	.3960-01	.9130	.1203-02	.1772-02	.2420	1.532	540.1
43	154.98	.42000	905.00	.3370-01	.2760-01	.4030-01	9130	.1237-02	.1805-02	.2530	1.642	536.0
43	154.98	.43500	906.00	.3000-01	.2460-01	.3590-01	.9130	.1101-02	.1608-02	.2250	1.470	536.2
43	154.98	.45000	907.00	.3120-01	.2550-01	.3720-01	.9130	.1142-02	.1668-02	.2340	1.532	536.3
43	154.98	.50000	908.00	.1210-01	.9900-02	.1450-01	.9130	.4437-03	.6494-03	.9000-01	.6490	537.1
43	154.98	.93500	913.00	.2620-01	.2130-01	.3150-01	.9130	.9532-03	.1412-02	.1890	1.377	542.5
43	154.98	.94500	914.00	.3410-01	.2770-01	.4120-01	.9130	.1241-02	.1845-02	.2440	1.763	543.9
43	157.50	.70000-01	918.00	.1633	.1283	.1782	.9341	.5791-02	.7978-02	1.031	7.107	562.9
43	157.50	.80000-01	919.00	.2237	.1762	.2487	.9314	.7889-02	.1113-01	1.375	9.295	566.5
43	157.50	.10000+00	920.00	.1647	.1319	.1867	.9264	.5905-02	.8360-02	1.097	7.296	555.1
43	157.50	.20000	922.00	.2490-01	.2040-01	.2980-01	.9130	.9156-03	.1332-02	.1890	1.264	534.8
43	157.50	.42000	923.00	.3190-01	.2620-01	.3810-01	.9130	.1171-02	.1708-02	.2400	1.578	535.6
43	157.50	.43500	924.00	.3160-01	.2590-01	.3780-01	.9130	.1160-02	.1691-02	.2380	1.566	535.6

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F12)

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TH DEG. R
43	157.50	.45000	925.00	.3020-01	.2480-01	.3610-01	.9130	.1109-02	.1617-02	.2280	1.511	535.6
43	157.50	.85000	926.00	.3340-01	.2730-01	.4010-01	.9130	.1220-02	.1795-02	.2460	1.596	539.4
43	157.50	.86000	927.00	.2570-01	.2100-01	.3080-01	.9130	.9400-03	.1381-02	.1900	1.237	538.8
43	157.50	.87000	928.00	.3330-01	.2710-01	.4000-01	.9130	.1215-02	.1791-02	.2440	1.591	540.2
43	157.50	.88000	929.00	.3180-01	.2590-01	.3820-01	.9130	.1161-02	.1712-02	.2320	1.525	540.6
43	157.50	.89000	930.00	.3210-01	.2610-01	.3860-01	.9130	.1169-02	.1728-02	.2330	1.537	541.6
43	157.50	.90000	931.00	.2750-01	.2240-01	.3300-01	.9130	.1001-02	.1479-02	.1990	1.348	54..5
43	157.50	.91000	932.00	.2630-01	.2140-01	.3150-01	.9130	.9593-03	.1412-02	.1930	1.417	539.7
43	157.50	.92600	933.00	.3090-01	.2520-01	.3720-01	.9130	.1126-02	.1667-02	.2240	1.636	542.2
43	163.12	.41500	934.00	.3230-01	.2650-01	.3850-01	.9130	.1185-02	.1725-02	.2440	1.591	535.0
43	163.12	.42000	935.00	.2900-01	.2380-01	.3460-01	.9130	.1065-02	.1550-02	.2190	1.443	534.9
43	163.12	.43000	937.00	.3340-01	.2740-01	.3990-01	.9130	.1227-02	.1788-02	.2520	1.665	535.2
43	163.12	.44000	938.00	.3270-01	.2680-01	.3900-01	.9130	.1199-02	.1747-02	.2460	1.620	535.5
43	163.12	.44500	939.00	.3160-01	.2590-01	.3780-01	.9130	.1161-02	.1692-02	.2380	1.591	535.6
43	163.12	.45000	940.00	.3130-01	.2560-01	.3730-01	.9130	.1147-02	.1672-02	.2350	1.573	535.5
43	163.12	.50000	941.00	.3370-01	.2750-01	.4030-01	.9130	.1233-02	.1805-02	.2510	1.708	537.5
43	163.12	.60000	942.00	.3350-01	.2740-01	.4010-01	.9130	.1225-02	.1795-02	.2490	1 610	537.9
43	163.12	.70000	943.00	.3570-01	.2910-01	.4290-01	.9130	.1303-02	.1921-02	.2610	1.798	540.5
43	163.12	.80000	944.00	.3400-01	.2770-01	.4080-01	.9130	.1242-02	.1825-02	.2500	1.640	539.2
43	168.00	.35000	945.00	.3040-01	.2500-01	.3620-01	.9130	.1118-02	.1623-02	.2310	1.476	533.8
43	168.00	.36000	946.00	.2980-01	.2440-01	.3550-01	.9130	.1095-02	.1590-02	.2260	1.4.9	534.0
43	168.00	.37000	947.00	.3000-01	.2460-01	.3580-01	.9130	.1103-02	.1602-02	.2280	1.466	533.8
43	168.00	.37500	948.00	.2920-01	.2390-01	.3480-01	.9130	.1072-02	.1558-02	.2220	1.423	534.0
43	168.00	.38500	950.00	.2620-01	.2150-01	.3120-01	.9130	.9623-03	.1397-02	.1990	1.295	533.6
43	168.00	.39000	951.00	.2990-01	.2450-01	.3560-01	.9130	.1098-02	.1594-02	.2270	1.4.4	533.8
43	168.00	.39500	952.00	.2860-01	.2340-01	.3410-01	.9130	.1049-02	.1525-02	.2160	1.392	534.5
43	168.00	.40000	953.00	.3150-01	.2590-01	.3760-01	.9130	.1159-02	.1684-02	.2390	1.567	534.2
43	169.00	.40500	954.00	.2890-01	.2370-01	.3450-01	.9130	.1061-02	.1543-02	.2190	1.436	534.6
43	168.00	.41000	955.00	.3180-01	.2610-01	.3790-01	.9130	.1167-02	.1698-02	.2410	1.579	534.8
43	168.00	.41500	956.00	.3520-01	.2890-01	.4200-01	.9130	.1293-02	.1882-02	.2660	1.752	534.9
43	168.00	.42000	957.00	.2960-01	.2430-01	.3540-01	.9130	.1088-02	.1583-02	.2240	1.482	534.6
43	169.00	.42500	958.00	.3280-01	.2690-01	.3920-01	.9130	.1205-02	.1754-02	.2480	1.638	535.0
43	168.00	.43000	959.00	.3100-01	.2540-01	.3700-01	.9130	.1139-02	.1658-02	.2340	1.542	535.0
43	168.00	.44000	960.00	.3140-01	.2580-01	.3750-01	.9130	.1153-02	.1680-02	.2370	1.565	535.3
43	168.00	.44500	961.00	.3160-01	.2590-01	.3780-01	.9130	.1160-02	.1692-02	.2380	1.568	535.9
43	168.00	.45000	962.00	.3260-01	.2670-01	.3890-01	.9130	.1195-02	.1742-02	.2450	1.630	535.4
43	169.00	.45500	963.00	.3130-01	.2570-01	.3740-01	.9130	.1150-02	.1675-02	.2360	1.557	535.5
43	169.00	.46000	964.00	.3300-01	.2700-01	.3950-01	.9130	.1211-02	.1768-02	.2480	1.654	536.2
43	168.00	.47000	965.00	.3330-01	.2730-01	.3980-01	.9130	.1222-02	.1784-02	.2500	1.674	536.3
43	168.00	.48000	966.00	.3620-01	.2960-01	.4330-01	.9130	.1326-02	.1937-02	.2710	1.832	536.4
43	168.00	.49000	967.00	.2590-01	.2130-01	.3100-01	.9130	.9522-03	.1386-02	.1960	1.325	535.0
43	168.00	.85000	968.00	.4000-01	.3260-01	.4800-01	.9130	.1460-02	.2149-02	.2930	1.910	539.8
43	168.00	.86000	969.00	.3870-01	.3160-01	.4650-01	.9130	.1413-02	.2082-02	.2830	1.850	540.3

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F12)

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
43	168.00	.87000	970.00	.3910-01	.3190-01	.4700-01	.9130	.1428-02	.2106-02	.2860	1.871	540.7
43	168.00	.88000	971.00	.3930-01	.3200-01	.4720-01	.9130	.1432-02	.2115-02	.2860	1.874	541.4
43	168.00	.89000	972.00	.4040-01	.3290-01	.4870-01	.9130	1474-02	.2180-02	.2930	1.954	541.8
43	168.00	.90000	973.00	.1810-01	.1480-01	.2190-01	.9130	.6610-03	.9786-03	.1310	.8950	542.3
43	168.00	.91000	974.00	.1460-01	.1190-01	.1750-01	.9130	.5320-03	.7837-03	.1070	.7820	540.1
43	168.00	.95000	976.00	.4090-01	.3320-01	.4930-01	.9130	.1488-02	.2209-02	.2940	2.119	543.4
20	180.00	.40000-01	600.00	.1153	.9270-01	.1217	.9392	.4148-02	.5448-02	.7810	5.012	550.3
20	180.00	.50000-01	601.00	.9800-01	.7900-01	.1051	.9360	.3536-02	.4705-02	.6720	4.333	548.4
20	180.00	.60000-01	602.00	.9310-01	.7480-01	.1016	.9330	.3349-02	.4546-02	.6290	4.179	550.8
20	180.00	.70000-01	603.00	.1434	.1131	.1605	.9302	.5062-02	.7183-02	.8830	5.974	564.1
20	180.00	.80000-01	604.00	.2125	.1657	.2433	.9276	.7415-02	.1089-01	1.242	7.983	571.0
20	180.00	.10000+00	605.00	.1316	.1046	.1529	.9230	.4682-02	.6842-02	.8430	6.014	558.5
20	180.00	.15000	606.00	.5170-01	.4170-01	.6210-01	.9150	.1868-02	.2780-02	.3570	2.595	547.4
20	180.00	.20000	607.00	.1300-01	.1460-01	.2160-01	.9130	.6547-03	.9672-03	.1300	.8520	539.7
20	180.00	.21000	608.00	.1090-01	.8900-02	.1310-01	.9130	.3963-03	.5851-03	.7900-01	.5470	539.4
20	180.00	.22000	609.00	.9800-02	.8000-02	.1180-01	.9130	.3576-03	.5288-03	.7100-01	.5300	540.1
20	180.00	.30000	610.00	.2670-01	.2180-01	.3210-01	.9130	.9739-03	.1436-02	.1950	1.337	538.8
20	180.00	.35000	611.00	.2490-01	.2030-01	.3000-01	.9130	.9083-03	.1341-02	.1810	1.209	539.5
20	180.00	.36000	612.00	.2350-01	.1910-01	.2820-01	.9130	.8554-03	.1262-02	.1710	1.151	539.2
20	180.00	.37000	613.00	.2480-01	.2020-01	.2980-01	.9130	.9037-03	.1335-02	.1800	1.213	539.6
20	180.00	.37500	614.00	.2510-01	.2040-01	.3020-01	.9130	.9152-03	.1351-02	.1820	1.230	539.3
20	180.00	.38000	615.00	.2180-01	.1780-01	.2630-01	.9130	.7965-03	.1175-02	.1590	1.071	539.2
20	180.00	.38500	616.00	.2290-01	.1860-01	.2750-01	.9130	.8344-03	.1231-02	.1660	1.122	539.2
20	180.00	.39000	617.00	.2500-01	.2030-01	.3000-01	.9130	.9102-03	.1344-02	.1810	1.219	539.4
20	180.00	.39500	618.00	.2600-01	.2120-01	.3130-01	.9130	.9472-03	.1400-02	.1880	1.274	539.8
20	180.00	.40000	619.00	.2380-01	.1930-01	.2860-01	.9130	.8658-03	.1279-02	.1720	1.157	539.8
20	180.00	.40500	620.00	.2460-01	.2010-01	.2960-01	.9130	.8975-03	.1326-02	.1790	1.204	539.6
20	180.00	.41000	621.00	.2820-01	.2290-01	.3390-01	.9130	.1026-02	.1516-02	.2040	1.377	539.6
20	180.00	.41500	622.00	.2840-01	.2310-01	.3420-01	.9130	.1035-02	.1530-02	.2060	1.384	539.8
20	180.00	.42500	624.00	.2580-01	.2100-01	.3100-01	.9130	.9389-03	.1389-02	.1860	1.251	540.4
20	180.00	.43000	625.00	.2700-01	.2200-01	.3260-01	.9130	.9841-03	.1457-02	.1950	1.313	540.7
20	180.00	.44000	626.00	.2700-01	.2190-01	.3240-01	.9130	.9816-03	.1452-02	.1950	1.313	540.3
20	180.00	.44500	627.00	.2520-01	.2050-01	.3030-01	.9130	.9162-03	.1356-02	.1820	1.236	540.4
20	180.00	.45500	629.00	.2470-01	.2010-01	.2970-01	.9130	.8992-03	.1331-02	.1780	1.231	540.4
20	180.00	.46000	630.00	.2480-01	.2020-01	.2980-01	.9130	.9031-03	.1336-02	.1790	1.208	540.2
20	180.00	.47000	631.00	.2590-01	.2100-01	.3110-01	.9130	.9416-03	.1394-02	.1870	1.258	540.5
20	180.00	.49000	633.00	.2480-01	.2020-01	.2990-01	.9130	.9047-03	.1339-02	.1790	1.227	540.5
20	180.00	.50000	634.00	.2260-01	.1840-01	.2730-01	.9130	.8252-03	.1220-02	.1640	1.150	540.1
20	180.00	.55000	635.00	.2410-01	.1960-01	.2900-01	.9130	.8763-03	.1297-02	.1740	1.156	540.5
20	180.00	.60000	636.00	.2750-01	.2230-01	.3320-01	.9130	.1000-02	.1486-02	.1970	1.272	541.8
20	180.00	.65000	637.00	.3470-01	.2810-01	.4190-01	.9130	.1260-02	.1875-02	.2460	1.597	542.9
20	180.00	.70000	638.00	.3730-01	.3020-01	.4510-01	.9130	.1352-02	.2018-02	.2630	1.805	543.9
20	180.00	.75000	639.00	.4140-01	.3360-01	.5000-01	.9130	.1503-02	.2238-02	.2940	1.900	542.9

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F12)

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
20	180.00	.80000	640.00	.4330-01	.3500-01	.5230-01	.9130	.1568-02	.2342-02	.3050	1.914	544.1
20	180.00	.85000	641.00	.4020-01	.3250-01	.4870-01	.9130	.1457-02	.2180-02	.2820	1.784	544.9
20	180.00	.86000	642.00	.4270-01	.3450-01	.5170-01	.9130	.1546-02	.2316-02	.2990	1.918	545.3
20	180.00	.87000	643.00	.5000-01	.4050-01	.6060-01	.9130	.1812-02	.2713-02	.3500	2.262	545.1
20	180.00	.88000	644.00	.5230-01	.4230-01	.6340-01	.9130	.1892-02	.2837-02	.3650	2.378	545.5
20	180.00	.89000	645.00	.4740-01	.3830-01	.5740-01	.9130	.1716-02	.2570-02	.3320	2.187	545.1
20	180.00	.90000	646.00	.4030-01	.3310-01	.4950-01	.9130	.1482-02	.2214-02	.2880	1.936	544.4
20	180.00	.92600	648.00	.4140-01	.3350-01	.5020-01	.9130	.1500-02	.2247-02	.2900	2.116	545.3
20	180.00	.95000	649.00	.4490-01	.3630-01	.5440-01	.9130	.1623-02	.2436-02	.3130	2.259	546.0
20	191.25	.35000	650.00	.2550-01	.2080-01	.3070-01	.9130	.9300-03	.1375-02	.1850	1.246	540.0
20	191.25	.36000	651.00	.2260-01	.1840-01	.2730-01	.9130	.8251-03	.1220-02	.1640	1.108	540.1
20	191.25	.37000	652.00	.2460-01	.2000-01	.2960-01	.9130	.8971-03	.1327-02	.1780	1.200	540.1
20	191.25	.37500	653.00	.2290-01	.1860-01	.2760-01	.9130	.8339-03	.1234-02	.1650	1.118	540.4
20	191.25	.38000	654.00	.2300-01	.1870-01	.2770-01	.9130	.8381-03	.1240-02	.1660	1.123	540.4
20	191.25	.38500	655.00	.2230-01	.1820-01	.2690-01	.9130	.8134-03	.1204-02	.1610	1.090	540.5
20	191.25	.39000	656.00	.2370-01	.1930-01	.2860-01	.9130	.8641-03	.1279-02	.1710	1.158	540.5
20	191.25	.39500	657.00	.2820-01	.2290-01	.3400-01	.9130	.1027-02	.1524-02	.2020	1.367	541.6
20	191.25	.40000	658.00	.2530-01	.2050-01	.3050-01	.9130	.9188-03	.1363-02	.1810	1.228	541.5
20	191.25	.40500	659.00	.2310-01	.1880-01	.2790-01	.9130	.8407-03	.1247-02	.1660	1.124	541.4
20	191.25	.41000	660.00	.2360-01	.1920-01	.2850-01	.9130	.8603-03	.1274-02	.1700	1.152	540.5
20	191.25	.41500	661.00	.2240-01	.1820-01	.2700-01	.9130	.8144-03	.1206-02	.1610	1.086	540.8
20	191.25	.42000	662.00	.2320-01	.1890-01	.2790-01	.9130	.8441-03	.1251-02	.1670	1.128	540.9
20	191.25	.42500	663.00	.2290-01	.1860-01	.2760-01	.9130	.8332-03	.1234-02	.1650	1.118	540.8
20	191.25	.43000	664.00	.2260-01	.1840-01	.2720-01	.9130	.8219-03	.1218-02	.1620	1.112	540.9
20	191.25	.44000	665.00	.2300-01	.1870-01	.2770-01	.9130	.8372-03	.1241-02	.1650	1.124	541.2
20	191.25	.45000	666.00	.2230-01	.1810-01	.2690-01	.9130	.8122-03	.1205-02	.1600	1.090	541.3
20	191.25	.45500	667.00	.2260-01	.1840-01	.2730-01	.9130	.8226-03	.1220-02	.1620	1.104	541.3
20	191.25	.46000	668.00	.2220-01	.1800-01	.2680-01	.9130	.8077-03	.1198-02	.1590	1.087	541.3
20	191.25	.47000	669.00	.2380-01	.1940-01	.2870-01	.9130	.8669-03	.1285-02	.1710	1.172	541.1
20	191.25	.48000	670.00	.2580-01	.2100-01	.3110-01	.9130	.9382-03	.1390-02	.1850	1.270	540.8
20	191.25	.49000	671.00	.2500-01	.2030-01	.3020-01	.9130	.9100-03	.1351-02	.1790	1.222	541.6
20	191.25	.50000	672.00	.2320-01	.1890-01	.2800-01	.9130	.8445-03	.1253-02	.1670	1.161	541.3
20	191.25	.60000	673.00	.3450-01	.2800-01	.4170-01	.9130	.1254-02	.1868-02	.2450	1.574	543.1
20	191.25	.70000	674.00	.3630-01	.2940-01	.4400-01	.9130	.1314-02	.1968-02	.2540	1.729	545.2
20	191.25	.85000	676.00	.4030-01	.3260-01	.4890-01	.9130	.1459-02	.2189-02	.2810	1.778	545.8
20	191.25	.86000	677.00	.4110-01	.3320-01	.4990-01	.9130	.1488-02	.2233-02	.2870	1.833	546.0
20	191.25	.87000	678.00	.4200-01	.3390-01	.5100-01	.9130	.1519-02	.2281-02	.2920	1.886	546.1
20	191.25	.88000	679.00	.4340-01	.3500-01	.5260-01	.9130	.1568-02	.2355-02	.3010	1.967	546.3
20	191.25	.89000	680.00	.4430-01	.3590-01	.5380-01	.9130	.1603-02	.2407-02	.3090	2.044	546.1
20	191.25	.90000	681.00	.3890-01	.3140-01	.4720-01	.9130	.1408-02	.2112-02	.2710	1.828	546.0
20	191.25	.91000	682.00	.2720-01	.2200-01	.3290-01	.9130	.9865-03	.1473-02	.1920	1.403	543.9
20	191.25	.92600	683.00	.3350-01	.2710-01	.4060-01	.9130	.1212-02	.1817-02	.2340	1.711	545.7
20	191.25	.95000	684.00	.4560-01	.3680-01	.5530-01	.9130	.1648-02	.2475-02	.3170	2.290	546.3

IH41(AEDC V41A-A4A) T1 SMOOTH NOSE ET (TRIPS) (RV7F12)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
20	197.00	.33000	685.00	.2380-01	.1940-01	.2860-01	.9130	.8670-03	.1281-02	.1720	1.163	539.8
20	197.00	.34000	686.00	.2350-01	.1910-01	.2830-01	.9130	.8561-03	.1265-02	.1700	1.148	539.8
20	197.00	.35000	687.00	.2290-01	.1860-01	.2750-01	.9130	.8332-03	.1231-02	.1660	1.117	539.8
20	197.00	.36000	688.00	.2550-01	.2070-01	.3060-01	.9130	.9275-03	.1371-02	.1840	1.242	540.1
20	197.00	.37000	689.00	.2380-01	.1940-01	.2860-01	.9130	.8665-03	.1282-02	.1720	1.159	540.2
20	197.00	.37500	690.00	.2790-01	.2270-01	.3360-01	.9130	.1014-02	.1503-02	.2010	1.357	540.8
21	197.00	.50000	691.00	.2410-01	.1960-01	.2910-01	.9130	.8766-03	.1301-02	.1730	1.165	541.4
21	197.00	.60000	692.00	.3090-01	.2510-01	.3740-01	.9130	.1123-02	.1673-02	.2190	1.417	543.2
21	197.00	.70000	693.00	.3430-01	.2780-01	.4150-01	.9130	.1243-02	.1858-02	.2410	1.639	544.4
22	197.00	.80000	694.00	.3950-01	.3190-01	.4780-01	.9130	.1429-02	.2139-02	.2770	1.740	545.0
22	197.00	.87000	695.00	.4260-01	.3440-01	.5160-01	.9130	.1539-02	.2312-02	.2980	1.885	546.4
43	197.00	.92500	696.00	.3500-01	.2830-01	.4250-01	.9130	.1266-02	.1901-02	.2440	1.785	546.1
21	209.80	.50000-01	699.00	.8010-01	.6530-01	.8660-01	.9339	.2921-02	.3871-02	.5840	3.722	542.3
21	209.80	.70000-01	700.00	.7870-01	.6370-01	.8760-01	.9282	.2853-02	.3921-02	.5580	3.774	546.7
21	209.80	.10000+00	701.00	.7680-01	.6120-01	.8660-01	.9213	.2738-02	.3876-02	.5440	3.475	543.5
21	209.80	.15000	702.00	.2760-01	.2260-01	.3280-01	.9141	.1012-02	.1468-02	.2070	1.489	537.4
21	209.80	.20000	703.00	.1000-01	.8200-02	.1190-01	.9130	.3655-03	.5324-03	.7500-01	.5040	535.2
21	209.80	.30000	704.00	.2150-01	.1760-01	.2570-01	.9130	.7870-03	.1151-02	.1610	1.144	538.0
21	209.80	.40000	705.00	.2010-01	.1640-01	.2400-01	.9130	.7349-03	.1074-02	.1500	1.034	537.7
21	209.80	.45000	706.00	.1910-01	.1570-01	.2290-01	.9130	.6969-03	.1004-02	.1400	.9690	537.8
21	209.80	.50000	707.00	.2080-01	.1690-01	.2490-01	.9130	.7587-03	.1117-02	.1530	1.049	540.8
21	209.80	.60000	708.00	.2290-01	.1950-01	.2750-01	.9130	.8364-03	.1230-02	.1670	1.067	541.9
21	209.80	.70000	709.00	.3550-01	.2830-01	.4280-01	.9130	.1293-02	.1917-02	.2570	1.659	543.8
21	209.80	.80000	710.00	.4270-01	.3440-01	.5160-01	.9130	.1566-02	.2304-02	.3100	1.935	543.2
21	209.80	.87500	711.00	.4410-01	.3581-01	.5370-01	.9130	.1601-02	.2372-02	.3180	2.013	543.6
21	209.80	.89000	712.00	.2930-01	.2380-01	.3530-01	.9130	.1065-02	.1577-02	.2120	1.543	543.3
21	209.80	.50000-01	715.00	.7990-01	.6510-01	.8630-01	.9340	.2913-02	.3861-02	.5820	3.804	542.6
21	209.80	.70000-01	716.00	.8280-01	.6100-01	.8940-01	.9283	.2985-02	.3125-02	.4520	3.088	544.4
21	209.80	.10000+00	717.00	.4410-01	.3570-01	.5010-01	.9214	.1600-02	.2241-02	.3060	2.126	538.3
21	209.80	.15000	718.00	.2600-01	.2130-01	.2610-01	.9142	.8086-03	.1170-02	.1670	1.233	535.4
21	209.80	.20000	719.00	.1000-01	.8200-02	.1190-01	.9130	.3672-03	.5340-03	.7600-01	.5150	535.5
21	209.80	.30000	720.00	.2200-01	.1810-01	.2710-01	.9130	.8191-03	.1213-02	.1630	1.217	538.0
21	209.80	.40000	721.00	.2010-01	.1660-01	.2480-01	.9130	.7491-03	.1164-02	.1630	1.138	537.3
21	209.80	.45000	722.00	.1930-01	.1591-01	.2380-01	.9130	.7524-03	.1101-02	.1540	1.073	537.8
21	209.80	.50000	723.00	.2110-01	.1760-01	.2630-01	.9130	.7898-03	.1160-02	.1590	1.108	540.2
21	209.80	.60000	724.00	.2330-01	.1980-01	.2960-01	.9130	.1040-02	.1530-02	.2100	1.344	540.8
21	209.80	.70000	725.00	.3610-01	.2870-01	.4400-01	.9130	.1330-02	.1959-02	.2650	1.687	543.2
21	209.80	.80000	726.00	.4340-01	.3490-01	.5240-01	.9130	.1592-02	.2347-02	.3200	2.014	541.5
21	209.80	.87500	727.00	.4480-01	.3639-01	.5450-01	.9130	.1772-02	.2605-02	.3530	2.261	543.2
21	209.80	.89000	728.00	.2980-01	.2420-01	.3590-01	.9130	.1085-02	.1605-02	.2160	1.575	542.9

IHN1(AEDC V41A-A4A) T2 SMOOTH NOSE ET(NOTRIPS)

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = .0000 BETA = .0000 GRIT = .0000 RN/L = 5.000

•••TEST CONDITIONS•••

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
35	5.500	4.983	.1000-01	.0000	.0000	178.0	.1910	741.0	105.1	4.050	2763.	.1526-03
36	5.500	4.968	.2000-01	.0000	.0000	177.8	.1910	742.0	105.3	4.048	2766.	.1523-03
37	5.500	4.976	.2000-01	.0000	.0000	177.8	.1910	741.0	105.2	4.047	2764.	.1525-03
38	5.500	4.966	.1000-01	.0000	.0000	177.7	.1910	742.0	105.3	4.045	2765.	.1522-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
35	.8465-07	.4477-01	.1362-01
36	.8478-07	.4477-01	.1364-01
37	.8468-07	.4476-01	.1363-01
38	.8477-07	.4476-01	.1364-01

•••TEST DATA•••

RUN NUMBER	PHI	X/L	T'C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
38	.00000	.12000-01	977.00	.6579	.4822	.5983	.9637	.2158-01	.2678-01	2.998	18.48	603.3
38	.00000	.15100-01	978.00	.4784	.3683	.4468	.9619	.1648-01	.2000-01	2.658	17.89	581.0
38	.00000	.18000-01	979.00	.3725	.2892	.3510	.9607	.1294-01	.1571-01	2.148	14.62	576.4
38	.00000	.24000-01	980.00	.3043	.2378	.2905	.9585	.1064-01	.1300-01	1.808	11.96	572.4
38	.00000	.33000-01	981.00	.2630	.2071	.2543	.9563	.9271-02	.1138-01	1.620	10.28	567.5
36	.00000	.40000-01	737.00	.1624	.1301	.1580	.9556	.5825-02	.7072-02	1.088	7.065	555.7
36	.00000	.45000-01	738.00	.1706	.1369	.1674	.9539	.6128-02	.7495-02	1.151	7.590	554.6
36	.00000	.60000-01	739.00	.1329	.1062	.1338	.9487	.4755-02	.5989-02	.8800	5.880	557.5
36	.00000	.70000-01	740.00	.1133	.9080-01	.1159	.9454	.4067-02	.5189-02	.7630	5.138	554.9
36	.00000	.80000-01	741.00	.9310-01	.7500-01	.9680-01	.9422	.3358-02	.4332-02	.6400	4.643	551.8
36	.00000	.10000+00	742.00	.7530-01	.6100-01	.8040-01	.9363	.2733-02	.3599-02	.5370	3.589	545.9
36	.00000	.12500	743.00	.5370-01	.4360-01	.5930-01	.9297	.1951-02	.2655-02	.3840	2.794	545.6
36	.00000	.15000	744.00	.3670-01	.2990-01	.4160-01	.9240	.1339-02	.1863-02	.2680	1.870	542.0
36	.00000	.17500	745.00	.2320-01	.1900-01	.2680-01	.9194	.8488-03	.1200-02	.1740	1.310	538.0
36	.00000	.20000	746.00	.2650-01	.2180-01	.3120-01	.9158	.9740-03	.1397-02	.2010	1.446	536.0
36	.00000	.21500	747.00	.1310-01	.1080-01	.1560-01	.9143	.4830-03	.6978-03	.1000+00	.6960	535.7

(IH41(AEDC V41A-A4A) T2 SMOOTH NOSE ET(NOTRIPS) (RV7F13)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
36	.00000	.23000	748.00	.8200-02	.6700-02	.9800-02	.9133	.3015-03	.4395-03	.6200-01	.4590	537.3
36	.00000	.24000	749.00	.6500-02	.5300-02	.7800-02	.9130	.2388-03	.3491-03	.4900-01	.3700	538.0
36	.00000	.30000	751.00	.8900-02	.7200-02	.1060-01	.9130	.3239-03	.4751-03	.6600-01	.4330	539.5
36	.00000	.35000	752.00	.8900-02	.7300-02	.1070-01	.9130	.3273-03	.4788-03	.6700-01	.4240	538.3
36	.00000	.40000	753.00	.1160-01	.9500-02	.1400-01	.9130	.4250-03	.6256-03	.8600-01	.5520	541.0
36	.00000	.50000	754.00	.1610-01	.1300-01	.1960-01	.9130	.5812-03	.8791-03	.1110	.7230	551.8
36	.00000	.60000	755.00	.3040-01	.2450-01	.3680-01	.9130	.1098-02	.1649-02	.2120	1.359	549.1
36	.00000	.70000	756.00	.3730-01	.2990-01	.4560-01	.9130	.1338-02	.2040-02	.2510	1.653	554.6
36	.00000	.80000	757.00	.3430-01	.2760-01	.4160-01	.9130	.1237-02	.1864-02	.2390	1.487	550.3
36	.00000	.90000	758.00	.1300-01	.1050-01	.1580-01	.9130	.4685-03	.7081-03	.8900-01	.5770	551.6
36	55.000	.22000	759.00	.2610-01	.2100-01	.3100-01	.9139	.9581-03	.1389-02	.1980	1.478	536.2
36	55.000	.25000	760.00	.8400-02	.6900-02	.1010-01	.9130	.3085-03	.4501-03	.6300-01	.4990	537.1
36	55.000	.27000	761.00	.9400-02	.7700-02	.1120-01	.9130	.3426-03	.5033-03	.6900-01	.5180	540.1
36	55.000	.30000	762.00	.2690-01	.2200-01	.3220-01	.9130	.9860-03	.1442-02	.2010	1.216	538.3
36	55.000	.32000	763.00	.3160-01	.2590-01	.3780-01	.9130	.1158-02	.1691-02	.2370	1.409	537.7
36	55.000	.34000	764.00	.3230-01	.2650-01	.3860-01	.9130	.1184-02	.1730-02	.2430	1.446	537.6
36	55.000	.38000	766.00	.3680-01	.3010-01	.4400-01	.9130	.1349-02	.1971-02	.2760	1.687	537.7
36	55.000	.40000	767.00	.3730-01	.3060-01	.4470-01	.9130	.1368-02	.1999-02	.2800	1.759	537.7
36	67.500	.23000	768.00	.1130-01	.9300-02	.1340-01	.9133	.4150-03	.6065-03	.8600-01	.6480	534.0
36	67.500	.25000	769.00	.4300-02	.3500-02	.5100-02	.9130	.1584-03	.2299-03	.3300-01	.2470	534.2
36	67.500	.27000	770.00	.3800-02	.3200-02	.4600-02	.9130	.1410-03	.2058-03	.2900-01	.2120	537.3
36	67.500	.30000	772.00	.9600-02	.7900-02	.1150-01	.9130	.3522-03	.5131-03	.7300-01	.4460	536.4
36	67.500	.31000	773.00	.8600-02	.7100-02	.1030-01	.9130	.3174-03	.4618-03	.6600-01	.4000	535.9
36	67.500	.32000	774.00	.8800-02	.7200-02	.1050-01	.9130	.3245-03	.4708-03	.6700-01	.4080	534.6
36	67.500	.32500	775.00	.9900-02	.8100-02	.1180-01	.9130	.3632-03	.5268-03	.7600-01	.4580	534.5
36	67.500	.33000	776.00	.9700-02	.8000-02	.1160-01	.9130	.3584-03	.5203-03	.7400-01	.4530	534.8
36	67.500	.33500	777.00	.1050-01	.8600-02	.1250-01	.9130	.3850-03	.5595-03	.8000-01	.4870	534.7
36	67.500	.34000	778.00	.1060-01	.8700-02	.1270-01	.9130	.3902-03	.5665-03	.8100-01	.4930	534.8
36	67.500	.34500	779.00	.1030-01	.8400-02	.1230-01	.9130	.3779-03	.5485-03	.7800-01	.4790	534.7
36	67.500	.35000	780.00	.9600-02	.7900-02	.1150-01	.9130	.3534-03	.5127-03	.7300-01	.4490	534.6
36	67.500	.35500	781.00	.9600-02	.7800-02	.1130-01	.9130	.3490-03	.5063-03	.7300-01	.4450	534.6
36	67.500	.36000	782.00	.1060-01	.8700-02	.1260-01	.9130	.3886-03	.5639-03	.8100-01	.4950	534.7
36	67.500	.36500	783.00	.8500-02	.7000-02	.1020-01	.9130	.3135-03	.4547-03	.6500-01	.3990	534.3
36	67.500	.37000	784.00	.9200-02	.7600-02	.1100-01	.9130	.3339-03	.4931-03	.7100-01	.4350	534.5
36	67.500	.37500	785.00	.1160-01	.9500-02	.1390-01	.9130	.4275-03	.6206-03	.8900-01	.5500	534.8
36	67.500	.38000	786.00	.9800-02	.8100-02	.1170-01	.9130	.3607-03	.5235-03	.7500-01	.4650	534.9
36	67.500	.39000	787.00	.1040-01	.8500-02	.1240-01	.9130	.3820-03	.5553-03	.7900-01	.4930	535.4
36	67.500	.40000	788.00	.8700-02	.7200-02	.1040-01	.9130	.3203-03	.4663-03	.6600-01	.4150	535.2
36	67.500	.50000	789.00	.1860-01	.1520-01	.2240-01	.9130	.6736-03	.1003-02	.1360	.8750	542.0
36	67.500	.60000	790.00	.2800-01	.2370-01	.3480-01	.9130	.1060-02	.1556-02	.2150	1.415	539.7
36	67.500	.70000	791.00	.4780-01	.3890-01	.5790-01	.9130	.1739-02	.2592-02	.3420	2.413	546.0
36	67.500	.80000	792.00	.4150-01	.3380-01	.5000-01	.9130	.1512-02	.2240-02	.3010	1.892	543.6
36	67.500	.90000	793.00	.2390-01	.1940-01	.2880-01	.9130	.8670-03	.1291-02	.1700	1.100	545.8

IH41(AEDC V41A-A4A) T2 SMOOTH NOSE ET(NOTRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
38	78.000	.27000	794.00	.3700-02	.3000-02	.4400-02	.9130	.1355-03	.1977-03	.2800-01	.1990	537.1
37	78.000	.30000	796.00	.8900-02	.7300-02	.1060-01	.9130	.3260-03	.4741-03	.6700-01	.4110	535.0
37	78.000	.31000	797.00	.9000-02	.7400-02	.1070-01	.9130	.3304-03	.4804-03	.6800-01	.4160	534.9
37	78.000	.32000	798.00	.8600-02	.7100-02	.1030-01	.9130	.3173-03	.4611-03	.6600-01	.3980	534.7
37	78.000	.32500	799.00	.9200-02	.7600-02	.1100-01	.9130	.3379-03	.4911-03	.7000-01	.4250	534.6
37	78.000	.33000	800.00	.9000-02	.7400-02	.1070-01	.9130	.3295-03	.4789-03	.6800-01	.4150	534.7
37	78.000	.33500	801.00	.1010-01	.8300-02	.1210-01	.9130	.3722-03	.5412-03	.7700-01	.4680	534.9
37	78.000	.34000	802.00	.8300-02	.6800-02	.9900-02	.9130	.3060-03	.4445-03	.6300-01	.3850	534.5
37	78.000	.34500	803.00	.9400-02	.7700-02	.1120-01	.9130	.3446-03	.5009-03	.7100-01	.4350	534.7
37	78.000	.35000	804.00	.8700-02	.7100-02	.1040-01	.9130	.3195-03	.4643-03	.6600-01	.4030	534.7
37	78.000	.35500	805.00	.9700-02	.8000-02	.1160-01	.9130	.3578-03	.5199-03	.7400-01	.4520	534.6
37	78.000	.36000	806.00	.3200-01	.2630-01	.3810-01	.9130	.1176-02	.1706-02	.2440	1.494	533.8
37	78.000	.36500	807.00	.7800-02	.6400-02	.9300-02	.9130	.2876-03	.4178-03	.6000-01	.3650	534.6
37	78.000	.37000	808.00	.8300-02	.6800-02	.9900-02	.9130	.3035-03	.4413-03	.6300-01	.3860	534.9
37	78.000	.37500	809.00	.7100-02	.5800-02	.8400-02	.9130	.2596-03	.3773-03	.5400-01	.3300	534.7
37	78.000	.38000	810.00	.6000-02	.4900-02	.7100-02	.9130	.2189-03	.3183-03	.4500-01	.2800	534.9
37	78.000	.39000	811.00	.8200-02	.6700-02	.9800-02	.9130	.3001-03	.4370-03	.6200-01	.3830	535.6
37	78.000	.40000	812.00	.7000-02	.5700-02	.8300-02	.9130	.2563-03	.3732-03	.5300-01	.3270	535.5
38	90.000	.40000-01	985.00	.1663	.1333	.1618	.9556	.5965-02	.7243-02	1.115	7.220	555.4
38	90.000	.50000-01	986.00	.1579	.1267	.1563	.9521	.5671-02	.6934-02	1.067	6.872	554.2
38	90.000	.60000-01	987.00	.1329	.1060	.1338	.9486	.4744-02	.5989-02	.8700	5.690	558.9
38	90.000	.70000-01	988.00	.1166	.9340-01	.1194	.9453	.4180-02	.5344-02	.7780	5.207	556.1
38	90.000	.80000-01	989.00	.9750-01	.7830-01	.1014	.9422	.3504-02	.4539-02	.6600	4.657	554.0
38	90.000	.10000+00	990.00	.7400-01	.5970-01	.7910-01	.9363	.2673-02	.3542-02	.5150	3.358	549.5
38	90.000	.15000	991.00	.4320-01	.3500-01	.4910-01	.9240	.1567-02	.2198-02	.3080	2.262	545.8
37	90.000	.23000	813.00	.1030-01	.8500-02	.1220-01	.9133	.3784-03	.5482-03	.7900-01	.5750	533.9
37	90.000	.24000	814.00	.8700-02	.7100-02	.1040-01	.9130	.3196-03	.4640-03	.6600-01	.5400	534.2
37	90.000	.27000	816.00	.5500-02	.4500-02	.6600-02	.9130	.2025-03	.2942-03	.4200-01	.3000	534.4
37	90.000	.29000	817.00	.5200-02	.4300-02	.6200-02	.9130	.1907-03	.2769-03	.4000-01	.2470	534.3
37	90.000	.30000	818.00	.8300-02	.6800-02	.9900-02	.9130	.3063-03	.4453-03	.6300-01	.3690	534.8
37	90.000	.31000	819.00	.8700-02	.7100-02	.1030-01	.9130	.3186-03	.4628-03	.6600-01	.4020	534.5
37	90.000	.32000	820.00	.9300-02	.7600-02	.1110-01	.9130	.3407-03	.4951-03	.7000-01	.4290	534.7
37	90.000	.32500	821.00	.9300-02	.7700-02	.1110-01	.9130	.3426-03	.4974-03	.7100-01	.4310	534.2
37	90.000	.33000	822.00	.9400-02	.7800-02	.1130-01	.9130	.3471-03	.5035-03	.7200-01	.4380	533.9
37	90.000	.33500	823.00	.1000-01	.8200-02	.1200-01	.9130	.3691-03	.5354-03	.7700-01	.4680	533.8
37	90.000	.34000	824.00	.1070-01	.8800-02	.1280-01	.9130	.3948-03	.5726-03	.8200-01	.4980	533.8
37	90.000	.34500	825.00	.9500-02	.7800-02	.1130-01	.9130	.3476-03	.5044-03	.7200-01	.4390	533.9
37	90.000	.35000	826.00	.9900-02	.8100-02	.1180-01	.9130	.3627-03	.5261-03	.7500-01	.4590	533.7
37	90.000	.36000	828.00	.1010-01	.8300-02	.1200-01	.9130	.3694-03	.5362-03	.7700-01	.4650	534.1
37	90.000	.37000	830.00	.8900-02	.7300-02	.1060-01	.9130	.3277-03	.4755-03	.6800-01	.4150	533.9
37	90.000	.37500	831.00	.9500-02	.7800-02	.1130-01	.9130	.3484-03	.5055-03	.7200-01	.4440	533.9
37	90.000	.38000	832.00	.8000-02	.6600-02	.9600-02	.9130	.2946-03	.4278-03	.6100-01	.3740	534.3
37	90.000	.39000	833.00	.7700-02	.6300-02	.9100-02	.9130	.2814-03	.4088-03	.5800-01	.3610	534.5

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OF POOR QUALITY

IH41(AEDC V41A-A4A) T2 SMOOTH NOSE ET(NOTRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
37	90.000	.40000	834.00	.8000-02	.6600-02	.9600-02	.9130	.2950-03	.4287-03	.6100-01	.3790	534.6
37	90.000	.50000	835.00	.7100-02	.5800-02	.8500-02	.9130	.2593-03	.3811-03	.5200-01	.3320	539.6
37	90.000	.60000	836.00	.9400-02	.7700-02	.1130-01	.9130	.3444-03	.5051-03	.7000-01	.4670	538.7
37	90.000	.70000	837.00	.6800-02	.5500-02	.8200-02	.9130	.2470-03	.3659-03	.4900-01	.3460	543.0
37	90.000	.80000	838.00	.9900-02	.8100-02	.1180-01	.9130	.3605-03	.5304-03	.7300-01	.4530	540.1
37	90.000	.90000	839.00	.7700-02	.6300-02	.9300-02	.9130	.2808-03	.4152-03	.5600-01	.3590	542.2
37	112.50	.23000	840.00	.1440-01	.1180-01	.1710-01	.9133	.5277-03	.7650-03	.1090	.6880	534.1
37	112.50	.25000	841.00	.1040-01	.8500-02	.1240-01	.9130	.3809-03	.5533-03	.7900-01	.6150	534.4
37	112.50	.27000	842.00	.2200-02	.1800-02	.2600-02	.9130	.8126-04	.1179-03	.1700-01	.1130	533.8
37	112.50	.30000	843.00	.8700-02	.7100-02	.1040-01	.9130	.3192-03	.4639-03	.6600-01	.3950	534.6
37	112.50	.35000	845.00	.6000-02	.4900-02	.7200-02	.9130	.2209-03	.3207-03	.4600-01	.2820	534.2
37	112.50	.40000	847.00	.9600-02	.7900-02	.1140-01	.9130	.3514-03	.5097-03	.7300-01	.4580	533.8
37	112.50	.45000	848.00	.9400-02	.7700-02	.1120-01	.9130	.3456-03	.5025-03	.7100-01	.4510	534.9
37	112.50	.50000	849.00	.8900-02	.7300-02	.1060-01	.9130	.3250-03	.4755-03	.6600-01	.4280	537.7
37	112.50	.55000	850.00	.4900-02	.4000-02	.5900-02	.9130	.1806-03	.2642-03	.3700-01	.2470	537.6
37	112.50	.60000	851.00	.9500-02	.7800-02	.1140-01	.9130	.3489-03	.5098-03	.7100-01	.4800	537.1
37	112.50	.65000	852.00	.9400-02	.7600-02	.1120-01	.9130	.3423-03	.5013-03	.7000-01	.4750	538.1
37	112.50	.70000	853.00	.1150-01	.9400-02	.1390-01	.9130	.4209-03	.6205-03	.8600-01	.5940	540.9
37	112.50	.75000	854.00	.8600-02	.7000-02	.1030-01	.9130	.3142-03	.4632-03	.6300-01	.4130	540.9
37	112.50	.80000	855.00	.9100-02	.7400-02	.1090-01	.9130	.3333-03	.4889-03	.6700-01	.4400	539.2
37	125.40	.84000	857.00	.6000-02	.4900-02	.7200-02	.9130	.2184-03	.3216-03	.4400-01	.2720	540.5
37	125.40	.85000	858.00	.5200-02	.4200-02	.6200-02	.9130	.1895-03	.2795-03	.3800-01	.2370	541.1
37	125.40	.86000	859.00	.5300-02	.4300-02	.6300-02	.9130	.1917-03	.2829-03	.3800-01	.2410	541.4
37	125.40	.87000	860.00	.5500-02	.4500-02	.6600-02	.9130	.1995-03	.2947-03	.4000-01	.2510	541.9
37	125.40	.88000	861.00	.5900-02	.4800-02	.7100-02	.9130	.2137-03	.3165-03	.4200-01	.2670	542.8
37	125.40	.89000	862.00	.8000-02	.6500-02	.9600-02	.9130	.2885-03	.4293-03	.5700-01	.3630	543.3
37	125.40	.90000	863.00	.3300-02	.2400-02	.3800-02	.9130	.1379-03	.1600-03	.2100-01	.1350	543.6
37	125.40	.92600	865.00	.7100-02	.5800-02	.8600-02	.9130	.2577-03	.3847-03	.5000-01	.3650	546.0
37	129.30	.80000	866.00	.1430-01	.1170-01	.1720-01	.9130	.5240-03	.7707-03	.1060	.6660	540.0
37	129.30	.81000	867.00	.8300-02	.7200-02	.1070-01	.9130	.3242-03	.4774-03	.6500-01	.4090	540.5
37	129.30	.82000	868.00	.6700-02	.5500-02	.8100-02	.9130	.2456-03	.3614-03	.4900-01	.3100	540.1
37	135.00	.40000-01	870.00	.1718	.1380	.1672	.9556	.61 6-02	.7485-02	1.163	7.452	553.2
37	135.00	.50000-01	871.00	.1660	.1369	.1644	.9520	.5994-02	.7357-02	1.151	7.349	549.5
37	135.00	.60000-01	872.00	.1358	.1067	.1337	.9486	.4776-02	.5994-02	.9020	5.971	552.7
37	135.00	.70000-01	873.00	.1118	.9020-01	.1143	.9453	.4037-02	.5117-02	.7760	5.273	549.3
37	135.00	.10000+00	875.00	.7660-01	.6250-01	.8170-01	.9363	.2796-02	.3657-02	.5620	3.697	540 6
37	135.00	.15000	876.00	.4260-01	.3400-01	.4810-01	.9240	.1550-02	.2153-02	.3190	2 348	536.9
37	135.00	.20000	877.00	.2070-01	.1700-01	.2420-01	.9158	.7611-03	.1085-02	.1590	1.091	532.4
37	135.00	.35000	878.00	.1080-01	.8900-02	.1290-01	.9130	.3966-03	.5755-03	.8200-01	.5150	534.0
37	135.00	.40000	879.00	.8300-02	.6850-02	.9900-02	.9130	.3066-03	.4451-03	.6400-01	.4080	534.2
37	135.00	.50000	880.00	.6000-02	.5000-02	.7300-02	.9130	.2528-03	.3696-03	.5200-01	.3550	537.3
37	135.00	.55000	881.00	.4700-02	.3900-02	.5700-02	.9130	.9898-04	.1358-03	.1900-01	.1210	537.0
38	135.00	.60000	882.00	.2680-01	.2330-01	.3410-01	.9131	.1044-02	.1526-02	.2130	1.438	535.3

(RV7F13)

(IH41)(AEDC V41A-A4A) T2 SMOOTH NOSE ET(NOTRIPS)

RUN NUMBER	F:HI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= (AW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
38	135.00	.65000	883.00	.2870-01	.2350-01	.3430-01	.9131	.1050-02	.1537-02	.2140	1.465	5 5.8
38	135.00	.70000	884.00	.2550-01	.2080-01	.3070-01	.9131	.9296-03	.1372-02	.1860	1.323	540.5
38	135.00	.75000	885.00	.2040-01	.1660-01	.2450-01	.9131	.7416-03	.1097-02	.1470	.9310	541.5
38	135.00	.80000	886.00	.2110-01	.1720-01	.2530-01	.9131	.7713-03	.1132-02	.1560	.9830	538.1
38	135.00	.84000	887.00	.2240-01	.1830-01	.2680-01	.9131	.8177-03	.1200-02	.1650	1.043	538.0
38	135.00	.85000	888.00	.1320-01	.1080-01	.1590-01	.9130	.4817-03	.7138-03	.9600-01	.6070	543.7
38	135.00	.86000	889.00	.8600-02	.7000-02	.1040-01	.9130	.3131-03	.4641-03	.6200-01	.3930	543.8
38	135.00	.87000	890.00	.7400-02	.6000-02	.8900-02	.9130	.2675-03	.3970-03	.5300-01	.3370	544.2
38	135.00	.88000	891.00	.9100-02	.7400-02	.1100-01	.9130	.3298-03	.4908-03	.6500-01	.4150	545.4
38	135.00	.89000	892.00	.1000-01	.8100-02	.1210-01	.9130	.3635-03	.5418-03	.7100-01	.4640	546.0
38	135.00	.90000	893.00	.3900-02	.3100-02	.4700-02	.9130	.1405-03	.2098-03	.2700-01	.1810	546.7
38	135.00	.92600	895.00	.6800-02	.5500-02	.8300-02	.9130	.2473-03	.3705-03	.4800-01	.3490	548.1
38	135.00	.95000	896.00	.2740-01	.2220-01	.3320-01	.9130	.9943-03	.1487-02	.1940	1.399	547.4
38	142.30	.42000	897.00	.8100-02	.6600-02	.9700-02	.9130	.2946-03	.4322-03	.6000-01	.3860	539.4
38	142.30	.43500	898.00	.6400-02	.5200-02	.7700-02	.9130	.2337-03	.3426-03	.4700-01	.2980	539.2
38	142.30	.45000	899.00	.8400-02	.6900-02	.1010-01	.9130	.3075-03	.4512-03	.6200-01	.4090	539.5
38	142.30	.47500	900.00	.6700-02	.5400-02	.8000-02	.9130	.2428-03	.3586-03	.4900-01	.3240	542.3
38	142.30	.50000	901.00	.8700-02	.7100-02	.1040-01	.9130	.3172-03	.4669-03	.6400-01	.4260	540.9
38	142.30	.60000	902.00	.7700-02	.6300-02	.9300-02	.9130	.2800-03	.4153-03	.5600-01	.3790	544.0
38	142.30	.70000	903.00	.9500-02	.7700-02	.1140-01	.9130	.3458-03	.5124-03	.6900-01	.4370	543.7
38	154.98	.42000	905.00	.8300-02	.6800-02	.9900-02	.9130	.3033-03	.4449-03	.6200-01	.3980	539.4
38	154.98	.43500	906.00	.8800-02	.7200-02	.1060-01	.9130	.3226-03	.4736-03	.6500-01	.42[illegible]0	539.8
38	154.98	.45000	907.00	.9000-02	.7300-02	.1035-01	.9130	.3275-03	.4811-03	.6600-01	.4330	540.1
38	154.98	.94500	914.00	.2760-01	.2230-01	.3340-01	.9130	.9985-03	.1493-02	.1950	1.401	547.3
38	157.50	.70000-01	918.00	.1096	.8790-01	.1122	.9453	.3935-02	.5023-02	.7370	5.103	555.0
38	157.50	.80000-01	919.00	.9740-01	.7830-01	.1012	.9422	.3506-02	.4531-02	.6650	4.525	552.6
38	157.50	.10000+00	920.00	.7290-01	.5890-01	.7800-01	.9363	.2636-02	.3493-02	.5090	3.393	549.3
38	157.50	.20000	922.00	.2160-01	.1770-01	.2550-01	.9158	.7908-03	.1143-02	.1600	1.072	539.4
38	157.50	.42000	923.00	.8600-02	.7000-02	.1030-01	.9130	.3140-03	.4607-03	.6400-01	.4170	539.5
38	157.50	.43500	924.00	.9000-02	.7300-02	.1070-01	.9130	.3275-03	.4806-03	.6600-01	.4360	539.6
38	157.50	.45000	925.00	.8100-02	.6600-02	.9700-02	.9130	.2969-03	.4360-03	.6000-01	.3980	539.8
38	157.50	.85000	926.00	.7500-02	.6100-02	.9000-02	.9130	.2730-03	.4050-03	.5400-01	.3510	544.0
38	157.50	.87000	928.00	.7200-02	.5800-02	.8600-02	.9130	.2606-03	.3870-03	.5200-01	.3350	544.6
38	157.50	.88000	929.00	.6100-02	.4900-02	.7300-02	.9130	.2208-03	.3285-03	.4300-01	.2850	545.4
38	157.50	.89000	930.00	.7600-02	.6200-02	.9200-02	.9130	.2774-03	.4140-03	.5400-01	.3570	546.5
38	163.12	.41500	934.00	.7800-02	.6400-02	.9300-02	.9130	.2847-03	.4171-03	.5800-01	.3770	538.8
38	163.12	.42000	935.00	.9000-02	.7300-02	.1080-01	.9130	.3289-03	.4821-03	.6700-01	.4390	539.0
38	163.12	.43000	937.00	.7300-02	.5900-02	.8700-02	.9130	.2654-03	.3896-03	.5400-01	.3540	539.6
38	163.12	.44000	938.00	.7000-02	.5700-02	.8400-02	.9130	.2571-03	.3775-03	.5200-01	.3420	539.7
38	163.12	.44500	939.00	.6900-02	.5600-02	.8200-02	.9130	.2508-03	.3680-03	.5100-01	.3390	539.5
38	163.12	.45000	940.00	.6700-02	.5500-02	.8100-02	.9130	.2460-03	.3609-03	.5000-01	.3330	539.5
38	163.12	.50000	941.00	.6900-02	.5600-02	.8300-02	.9130	.2506-03	.3702-03	.5000-01	.3400	542.4
38	163.12	.60000	942.00	.7900-02	.6500-02	.9500-02	.9130	.2900-03	.4269-03	.5800-01	.3780	540.9

(IH41(AEDC V41A-A4A) T2 SMOOTH NOSE ET(NOTRIPS) (RV7F13)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
38	163.12	.70000	943.00	.7800-02	.6300-02	.9400-02	.9130	.2824-03	.4196-03	.5600-01	.3840	544.7
38	163.12	.80000	944.00	.7400-02	.6000-02	.8900-02	.9130	.2684-03	.3979-03	.5300-01	.3480	543.9
38	168.00	.35000	945.00	.9600-02	.7900-02	.1150-01	.9130	.3532-03	.5168-03	.7200-01	.4590	538.2
38	168.00	.36000	946.00	.1000-01	.8200-02	.1200-01	.9130	.3661-03	.5358-03	.7500-01	.4760	538.4
38	168.00	.37000	947.00	.9600-02	.7900-02	.1150-01	.9130	.3529-03	.5165-03	.7200-01	.4610	538.3
38	168.00	.37500	948.00	.5700-02	.4600-02	.6800-02	.9130	.2074-03	.3038-03	.4200-01	.2700	538.6
38	168.00	.38500	950.00	.7400-02	.6100-02	.8900-02	.9130	.2714-03	.3969-03	.5500-01	.3590	538.1
38	168.00	.39000	951.00	.9000-02	.7300-02	.1080-01	.9130	.3287-03	.4811-03	.6700-01	.4360	538.5
38	168.00	.39500	952.00	.8700-02	.7100-02	.1040-01	.9130	.3189-03	.4670-03	.6500-01	.4170	538.7
38	168.00	.40000	953.00	.2400-02	.2000-0	.2900-02	.9130	.8951-04	.1310-03	.1800-01	.1190	538.4
38	168.00	.40500	954.00	.8100-02	.6600-02	.9700-02	.9130	.2956-03	.4331-03	.6000-01	.3940	538.9
38	168.00	.41000	955.00	.8200-02	.6700-02	.9800-02	.9130	.2997-03	.4390-03	.6100-01	.3990	538.8
38	168.00	.42000	957.00	.8100-02	.6600-02	.9700-02	.9130	.2964-03	.4342-03	.6000-01	.3970	538.8
38	168.00	.42500	958.00	.6900-02	.5600-02	.8200-02	.9130	.2512-03	.3682-03	.5100-01	.3360	539.0
38	168.00	.43000	959.00	.7500-02	.6100-02	.9000-02	.9130	.2750-03	.4034-03	.5600-01	.3660	539.5
38	168.00	.44000	960.00	.1090-01	.8900-02	.1310-01	.9130	.3990-03	.5847-03	.8100-01	.5340	539.0
38	168.00	.44500	961.00	.9000-02	.7300-02	.1080-01	.9130	.3285-03	.4819-03	.6700-01	.4390	539.4
38	168.00	.45000	962.00	.8400-02	.6800-02	.1000-01	.9130	.3058-03	.4491-03	.6200-01	.4100	539.9
38	168.00	.45500	963.00	.7700-02	.6300-02	.9200-02	.9130	.2804-03	.4118-03	.5700-01	.3760	539.8
38	168.00	.46000	964.00	.6100-02	.4900-02	.7300-02	.9130	.2212-03	.3247-03	.4500-01	.2990	539.7
38	168.00	.47000	965.00	.7900-02	.6400-02	.9500-02	.9130	.2877-03	.4230-03	.5800-01	.3880	540.5
38	168.00	.48000	966.00	.7200-02	.5900-02	.8600-02	.9130	.2619-03	.3854-03	.5300-01	.3560	540.7
38	168.00	.49000	967.00	.1320-01	.1070-01	.1580-01	.9130	.4807-03	.7072-03	.9700-01	.6530	540.7
38	168.00	.85000	968.00	.8400-02	.6800-02	.1010-01	.9130	.3054-03	.4536-03	.6000-01	.3920	544.6
38	168.00	.86000	969.00	.6800-02	.5500-02	.8200-02	.9130	.2469-03	.3671-03	.4900-01	.3170	545.0
38	168.00	.87000	970.00	.6700-02	.5400-02	.8100-02	.9130	.2433-03	.3621-03	.4800-01	.3130	545.5
38	168.00	.88000	971.00	.6000-02	.4900-02	.7300-02	.9130	.2195-03	.3274-03	.4300-01	.2810	546.4
38	168.00	.89000	972.00	.7800-02	.6300-02	.9500-02	.9130	.2836-03	.4238-03	.5500-01	.3680	547.1
38	168.00	.90000	973.00	.7500-02	.6100-02	.9100-02	.9130	.2728-03	.4083-03	.5300-01	.3610	547.7
38	168.00	.92600	975.00	.3700-02	.3000-02	.4500-02	.9130	.1349-03	.2023-03	.2600-01	.1990	548.4
38	168.00	.95000	976.00	.2300-01	.1860-01	.2780-01	.9130	.8330-03	.1246-02	.1620	1.169	547.4
35	180.00	.40000-01	600.00	.1791	.1440	.1744	.9556	.6449-02	.7808-02	1.219	7.819	552.2
35	180.00	.50000-01	601.00	.1587	.1279	.1571	.9521	.5727-02	.7036-02	1.094	7.043	550.2
35	180.00	.60000-01	602.00	.1355	.1085	.1364	.9486	.4860-02	.6107-02	.9060	6.012	554.8
35	180.00	.70000-01	603.00	.1131	.9080-01	.1158	.9453	.4067-02	.5184-02	.7650	5.201	553.2
35	180.00	.80000-01	604.00	.1053	.8480-01	.1095	.9422	.3798-02	.4902-02	.7230	4.693	550.9
35	180.00	.10000+00	605.00	.7030-01	.5580-01	.7510-01	.9363	.2544-02	.3365-02	.4930	3.339	547.4
35	180.00	.15000	606.00	.3470-01	.2820-01	.3940-01	.9240	.1261-02	.1764-02	.2490	1.813	543.8
35	180.00	.20000	607.00	.1780-01	.1450-01	.2110-01	.9158	.6508-03	.9429-03	.1310	.8590	539.7
35	180.00	.21000	608.00	.1420-01	.1160-01	.1680-01	.9147	.5177-03	.7532-03	.1050	.7260	539.0
35	180.00	.22000	609.00	.1070-01	.8800-02	.1280-01	.9139	.3930-03	.5745-03	.7900-01	.5930	539.1
35	180.00	.35000	611.00	.7000-02	.5700-02	.8400-02	.9130	.2548-03	.3742-03	.5100-01	.3440	539.1
35	180.00	.36000	612.00	.7300-02	.6000-02	.8800-02	.9130	.2687-03	.3944-03	.5400-01	.3670	539.0

IH41(AEDC V41A-A4A) T2 SMOOTH NOSE ET(NOTRIPS) (RV7F13)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
35	180.00	.37000	613.00	.4000-02	.3300-02	.4800-02	.9130	.1477-03	.2170-03	.3000-01	.2010	539.3
35	180.00	.37500	614.00	.7300-02	.5900-02	.8700-02	.9130	.2654-03	.3898-03	.5400-01	.3620	539.2
35	180.00	.38000	615.00	.1430-01	.1170-01	.1710-01	.9130	.5218-03	.7662-03	.1060	.7120	539.1
35	180.00	.38500	616.00	.9100-02	.7400-02	.1090-01	.9130	.3321-03	.4878-03	.6700-01	.4530	539.2
35	180.00	.39000	617.00	.7400-02	.6100-02	.8900-02	.9130	.2720-03	.3997-03	.5500-01	.3690	539.4
35	180.00	.39500	618.00	.4400-02	.3600-02	.5300-02	.9130	.1624-03	.2386-03	.3300-01	.2220	539.3
35	180.00	.40000	619.00	.6400-02	.5200-02	.7600-02	.9130	.2325-03	.3416-03	.4700-01	.3160	539.3
35	180.00	.40500	620.00	.8600-02	.7000-02	.1030-01	.9130	.3133-03	.4607-03	.6300-01	.4260	539.7
35	180.00	.41000	621.00	.1020-01	.8300-02	.1220-01	.9130	.3709-03	.5459-03	.7500-01	.5030	540.1
35	180.00	.41500	622.00	.1020-01	.8300-02	.1230-01	.9130	.3737-03	.5503-03	.7500-01	.5050	540.3
35	180.00	.42500	624.00	.8200-02	.6700-02	.9800-02	.9130	.2984-03	.4401-03	.6000-01	.4020	541.0
35	180.00	.43000	625.00	.6900-02	.5600-02	.8300-02	.9130	.2506-03	.3699-03	.5000-01	.3380	541.3
35	180.00	.44000	626.00	.6500-02	.5300-02	.7800-02	.9130	.2390-03	.3509-03	.4800-01	.3210	540.9
35	180.00	.44500	627.00	.6600-02	.5400-02	.7900-02	.9130	.2398-03	.3538-03	.4800-01	.3270	541.1
35	180.00	.45500	629.00	.5700-02	.4600-02	.6800-02	.9130	.2075-03	.3059-03	.4200-01	.2870	540.8
35	180.00	.46000	630.00	.5500-02	.4500-02	.6600-02	.9130	.2000-03	.2948-03	.4000-01	.2700	540.8
35	180.00	.47000	631.00	.6100-02	.5000-02	.7300-02	.9130	.2223-03	.3281-03	.4400-01	.3000	541.3
35	180.00	.49000	633.00	.5500-02	.4500-02	.6700-02	.9130	.2020-03	.2985-03	.4000-01	.2760	541.6
35	180.00	.50000	634.00	.3600-02	.2900-02	.4400-02	.9130	.1319-03	.1948-03	.2600-01	.1850	541.5
35	180.00	.60000	636.00	.1020-01	.8300-02	.1230-01	.9130	.3721-03	.5509-03	.7400-01	.4780	542.5
35	180.00	.65000	637.00	.7600-02	.6200-02	.9100-02	.9130	.2755-03	.4087-03	.5500-01	.3530	543.3
35	180.00	.70000	638.00	.5200-02	.4200-02	.6300-02	.9130	.1890-03	.2821-03	.3700-01	.2530	545.8
35	180.00	.75000	639.00	.4300-02	.3500-02	.5200-02	.9130	.1555-03	.2320-03	.3000-01	.1960	545.8
35	180.00	.80000	640.00	.5000-02	.4100-02	.6000-02	.9130	.1814-03	.2706-03	.3500-01	.2230	545.6
35	180.00	.85000	641.00	.5200-02	.4200-02	.6300-02	.9130	.1877-03	.2805-03	.3700-01	.2310	546.3
35	180.00	.86000	642.00	.5900-02	.4700-02	.7100-02	.9130	.2126-03	.3182-03	.4100-01	.2650	547.0
35	180.00	.87000	643.00	.5300-02	.4300-02	.6400-02	.9130	.1904-03	.2854-03	.3700-01	.2380	547.6
35	180.00	.88000	644.00	.6700-02	.5500-02	.8200-02	.9130	.2440-03	.3664-03	.4700-01	.3060	548.1
35	180.00	.89000	645.00	.5900-02	.4800-02	.7200-02	.9130	.2133-03	.3204-03	.4100-01	.2710	548.3
35	180.00	.92600	648.00	.4800-02	.3900-02	.5800-02	.9130	.1726-03	.2590-03	.3300-01	.2430	548.0
35	180.00	.95000	649.00	.2230-01	.1800-01	.2710-01	.9130	.8069-03	.1212-02	.1560	1.124	548.2
35	191.25	.35000	650.00	1180-01	.9600-02	.1420-01	.9130	.4320-03	.6361-03	.8700-01	.5850	540.3
35	191.25	.36000	651.00	.7400-02	.6000-02	.8900-02	.9130	.2696-03	.3967-03	.5400-01	.3670	540.1
35	191.25	.37000	652.00	.8500-02	.6900-02	.1020-01	.9130	.3105-03	.4572-03	.6200-01	.4210	540.2
35	191.25	.37500	653.00	.7300-02	.6000-02	.8800-02	.9130	.2667-03	.3925-03	.5400-01	.3630	540.1
35	191.25	.38000	654.00	.7600-02	.6200-02	.9200-02	.9130	.2791 03	.4108-03	.5600-01	.3800	540.1
35	191.25	.38500	655.00	.7200-02	.5900-02	.8700-02	.9130	.2635-03	.3878-03	.5300-01	.3590	540.1
35	191.25	.39000	656.00	.7200-02	.5800-02	.8600-02	.9130	.2619-03	.3855-03	.5300-01	.3560	540.1
35	191.25	.41000	660.00	.7300-02	.6000-02	.8800-02	.9130	.2671-03	.3934-03	.5400-01	.3630	540.4
35	191.25	.41500	661.00	.8600-02	.7000-02	.1030-01	.9130	.3125-03	.4604-03	.6300-01	.4230	540.5
35	191.25	.42000	662.00	.7800-02	.6400-02	.9400-02	.9130	.2846-03	.4197-03	.5700-01	.3850	541.0
35	191.25	.42500	663.00	.7800-02	.6400-02	.9400-02	.9130	.2856-03	.4211-03	.5700-01	.3860	540.9
35	191.25	.43000	664.00	.7500-02	.6100-02	.9000-02	.9130	.2742-03	.4046-03	.5500-01	.3760	541.1

(RV7F13)

IH41(AEDC V41A-A4A) T2 SMOOTH NOSE ET:NOTRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
35	191.25	.44000	665.00	.6900-02	.5600-02	.8300-02	.9130	.2520-03	.3721-03	.5000-01	.3420	541.4
35	191.25	.45000	666.00	.6800-02	.5600-02	.8200-02	.9130	.2492-03	.3683-03	.5000-01	.3380	541.8
35	191.25	.45500	667.00	.6500-02	.5300-02	.7900-02	.9130	.2384-03	.3521-03	.4800-01	.3240	541.5
35	191.25	.46000	668.00	.6500-02	.5300-02	.7800-02	.9130	.2374-03	.3508-03	.4700-01	.3230	541.7
35	191.25	.47000	669.00	.7200-02	.5800-02	.8600-02	.9130	.2616-03	.3864-03	.5200-01	.3570	541.6
35	191.25	.48000	670.00	.6200-02	.5100-02	.7500-02	.9130	.2277-03	.3364-03	.4500-01	.3110	541.6
35	191.25	.49000	671.00	.7900-02	.6500-02	.9600-02	.9130	.2890-03	.4282-03	.5700-01	.3910	542.9
35	191.25	.50000	672.00	.7100-02	.5800-02	.8500-02	.9130	.2577-03	.3817-03	.5100-01	.3560	542.7
35	191.25	.60000	673.00	.8000-02	.6500-02	.9700-02	.9130	.2911-03	.4322-03	.5800-01	.3690	543.7
35	191.25	.70000	674.00	.6900-02	.5600-02	.3400-02	.9130	.2519-03	.3768-03	.4900-01	.3330	546.7
35	191.25	.86000	677.00	.3900-02	.3200-02	.4700-02	.9130	.1420-03	.2123-03	.2800-01	.1770	546.4
35	191.25	.87000	678.00	.7000-02	.5600-02	.8400-02	.9130	.2524-03	.3779-03	.4900-01	.3160	547.0
35	191.25	.88000	679.00	.6000-02	.4800-02	.7200-02	.9130	.2157-03	.3234-03	.4200 01	.2720	547.7
35	191.25	.89000	680.00	.6000-02	.4900-02	.7300-02	.9130	.2172-03	.3260-03	.4200-01	.2780	548.0
35	191.25	.95000	684.00	.2060-01	.1670-01	.2500-01	.9130	.7455-03	.1118-02	.1440	1.042	547.8
35	197.00	.33000	685.00	.8800-02	.7200-02	.1060-01	.9130	.3224-03	.4742-03	.6500-01	.4380	539.8
35	197.00	.34000	686.00	.8200-02	.6700-02	.9800-02	.9130	.2961-03	.4384-03	.6000-01	.4050	539.8
35	197.00	.35000	687.00	.1090-01	.8900-02	.1300-01	.9130	.3973-03	5840-03	.8000-01	.5410	539.5
35	197.00	.36000	688.00	.8300-02	.6700-02	.9900-02	.9130	.3021-03	.4444-03	.6100-01	.4100	539.8
35	197.00	.37000	689.00	.9100-02	.7500-02	.1100-01	.9130	.3341-03	.4915-03	.6700-01	.4540	539.9
35	197.00	.37500	690.00	.9900-02	.8100-02	.1190-01	.9130	.3614-03	.5326-03	.7300-01	.4900	540.6
35	197.00	.50000	691.00	.6600-02	.5400-02	.8000-02	.9130	.2413-03	.3570-03	.4800-01	.3230	542.3
35	197.00	.60000	692.00	.7100-02	.5800-02	.8600-02	.9130	.2601-03	.3853-03	.5200-01	.3540	542.7
35	197.00	.70000	693.00	.9900-02	.8100-02	.1200-01	.9130	.3614-03	.5378-03	.7100-01	.4820	544.6
35	197.00	.80000	694.00	.8000-02	.6500-02	.9500-02	.9130	.2901-03	.4320-03	.5700-01	.3580	544.9
38	197.00	.87000	695.00	.4260-01	.3440-01	.5160-01	.9130	.1539-02	.2312-02	.2960	1.885	546.4
38	197.00	.92600	696.00	.3500-01	.2830-01	.4250-01	.9130	.1266-02	.1901-02	.2440	1.785	546.1
36	209.80	.50000-01	699.00	.1694	.1368	.1678	.9520	.6126-02	.7511-02	1.184	7.515	549.2
36	209.80	.70000-01	700.00	.1224	.9880-01	.1252	.9453	.4423-02	.5603-02	.8520	5.756	549.7
36	209.80	.10000+00	701.00	.8030-01	.6530-01	.8560-01	.9362	.2925-02	.3834-02	.5830	3.727	542.9
36	209.80	.15000	702.00	.3430-01	.2810-01	.3880-01	.9240	.1258-02	.1738-02	.2570	1.845	538.3
36	209.80	.20000	703.00	.1770-01	.1450-01	.2070-01	.9158	.6497-03	.9285-03	.1350	.9070	534.2
36	209.80	.30000	704.00	.7200-02	.5900-02	.8700-02	.9130	.2655-03	.3879-03	.5400-01	.3870	537.8
36	209.80	.35000	705.00	.8700-02	.7100-02	.1040-01	.9130	.3190-03	.4647-03	.6600-01	.4520	536.4
36	209.80	.37500	706.00	.6600-02	.5400-02	.7900-02	.9130	.2432-03	.3541-03	.5000-01	.3460	536.2
36	209.80	.50000	707.00	.5900-02	.4800-02	.7100-02	.9130	.2154-03	.3170-03	.4300-01	.2980	541.0
36	209.80	.60000	708.00	.1930-01	.1580-01	.2310-01	.9130	.7084-03	.1036-02	.1450	.9260	538.2
36	209.80	.70000	709.00	.5100-02	.4100-02	.6100-02	.9130	.1843-03	.2727-03	.3700-01	.2350	543.1
36	209.80	.80000	710.00	.7900-02	.6400-02	.9400-02	.9130	.2875-03	.4229-03	.5800-01	.3630	540.7
36	209.80	.87000	711.00	.4500-02	.3700-02	.5400-02	.9130	.1641-03	.2425-03	.3300-01	.2080	542.6
36	217.70	.50000-01	715.00	.1584	.1280	.1569	.9520	.5729-02	.7025-02	1.106	7.204	549.4
36	217.70	.70000-01	716.00	.1140	.9200-01	.1166	.9453	.4119-02	.5221-02	.7920	5.396	550.1
36	217.70	.10000+00	717.00	.7290-01	.5940-01	.7780-01	.9363	.2659-02	.3483-02	.5320	3.458	542.4

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F13)

IH41(AEDC V41A-A4A) T2 SMOOTH NOSE ET(NOTRIPS)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
36	217.70	.15000	718.00	.3480-01	.2840-01	.3930-01	.9240	.1273-02	.1760-02	.259n	1.907	538.5
36	217.70	.20000	719.00	.1950-01	.1610-01	.2290-01	.9158	.7191-03	.1027-02	.1500	1.019	533.6
36	217.70	.30000	720.00	.7700-02	.6300-02	.9200-02	.9130	.2819-03	.4121-03	.5800-01	.4140	537.9
36	217.70	.35000	721.00	.8400-02	.6900-02	.1010-01	.9130	.3100-03	.4515-03	.6400-01	.4450	536.3
36	217.70	.37500	722.00	.6700-02	.5500-02	.8000-02	.9130	.2452-03	.3573-03	.5100-01	.3520	536.5
36	217.70	.50000	723.00	.5300-02	.4300-02	.6400-02	.9130	.1944-03	.2860-03	.3900-01	.2720	540.7
36	217.70	.60000	724.00	.7600-02	.6200-02	.9100-02	.9130	.2787-03	.4080-03	.5700-01	.3650	538.6
36	217.70	.70000	725.00	.7300-02	.5900-02	.8800-02	.9130	.2663-03	.3934-03	.5300-01	.3390	542.6
36	217.70	.80000	726.00	.9300-02	.7600-02	.1110-01	.9130	.3393-03	.4986-03	.6900-01	.4330	540.2
36	217.70	.87000	727.00	.8800-02	.7200-02	.1060-01	.9130	.3209-03	.4734-03	.6400-01	.4120	541.9
36	217.70	.92600	728.00	.2600-02	.2100-02	.3200-02	.9130	.9537-04	.1417-03	.1900-01	.1370	544.8

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F14)

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = .0000 BETA = .0000 GRIT = 3.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
298	2.500	4.894	.1000-01	.0000	.0000	32.00	1.875	656.0	291.6	8.203	2092.	.5395-03
299	2.500	4.843	.1000-01	.0000	.0000	32.00	1.872	660.0	293.5	8.191	2099.	.5353-03
300	2.500	4.853	.1000-01	.0000	.0000	31.90	1.869	659.0	292.7	8.176	2096.	.5357-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
298	.2306-06	.6252-01	.6938-02
299	.2319-06	.6253-01	.6971-02
300	.2314-06	.6244-01	.6966-02

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
298	.00000	.30000-02	730.00	.5075	.3194	.3622	.9840	.1997-01	.2265-01	1.779	12.06	571.2
299	.00000	.10300-01	731.00	.2794	.1910	.2987	.9430	.1194-01	.1868-01	1.246	8.542	556.0
299	.00000	.15000-01	732.00	.2838	.1927	.3040	.9430	.1205-01	.1901-01	1.238	8.380	557.5
299	.00000	.20000-01	733.00	.3531	.2337	.2695	.9803	.1461-01	.1695-01	1.426	9.715	562.7
299	.00000	.25000-01	734.00	.6525	.3938	.4807	.9783	.2500-01	.3006-01	2.131	14.29	575.1
299	.00000	.30000-01	735.00	.7986	.5021	.6382	.9766	.3140-01	.3897-01	2.266	15.19	578.1
299	.00000	.35000-01	736.00	.6706	.4004	.4985	.9750	.2504-01	.3117-01	2.098	13.48	576.5
299	.00000	.40000-01	737.00	.6873	.4139	.5249	.9733	.2588-01	.3282-01	2.161	14.10	576.8
299	.00000	.60000-01	739.00	.8897	.3553	.5058	.9683	.2222-01	.3162-01	1.565	10.29	589.9
299	.00000	.70000-01	740.00	.8880	.3559	.5274	.9652	.2221-01	.3209-01	1.553	10.34	590.9
299	.00000	.80000-01	741.00	.8507	.3003	.4569	.9624	.1980-01	.2857-01	1.368	9.745	587.6
299	.00000	.90000-01	742.00	.7985	.2459	.3751	.9573	.1536-01	.2239-01	1.384	9.136	570.3
299	.00000	.12500	744.00	.2941	.1768	.2858	.9522	.1106-01	.1787-01	.9160	6.557	577.5
299	.00000	.15000	744.00	.2628	.1655	.2692	.9483	.1035-01	.1677-01	.8830	6.340	571.1
299	.00000	.17500	745.00	.1933	.1257	.2031	.9455	.7960-02	.1270-01	.7420	5.523	555.9
299	.00000	.20000	746.00	.1530	.1031	.1626	.9438	.6416-02	.1017-01	.6530	4.642	559.0
299	.00000	.21500	747.00	.1390	.9380-01	.1485	.9433	.5871-02	.9288-02	.5980	4.119	558.5
299	.00000	.23000	748.00	.1190	.7990-01	.1277	.9430	.4993-02	.7985-02	.5010	3.681	559.9

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F14)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
299	.00000	.24000	749.00	.1081	.7280-01	.1160	.9430	.4553-02	.7251-02	.4600	3.451	559.2
299	.00000	.25000	750.00	.6220-01	.4220-01	.6660-01	.9430	.2639-02	.4162-02	.2720	2.185	557.4
299	.00000	.30000	751.00	.1163	.7880-01	.1246	.9430	.4926-02	.7791-02	.5040	3.290	558.0
299	.00000	.40000	753.00	.1194	.8160-01	.1276	.9430	.5103-02	.7980-02	.5330	3.410	555.9
299	.00000	.50000	754.00	.9330-01	.6200-01	.1003	.9430	.3879-02	.6272-02	.3830	2.485	561.7
299	.00000	.60000	755.00	.1157	.7610-01	.1248	.9430	.4760-02	.7802-02	.4600	2.922	563.8
299	.00000	.70000	756.00	.1038	.6670-01	.1126	.9430	.4167-02	.7042-02	.3840	2.510	568.1
299	.00000	.80000	757.00	.1142	.7370-01	.1237	.9430	.4606-02	.7737-02	.4290	2.657	567.3
299	.00000	.90000	758.00	.6760-01	.4320-01	.7340-01	.9430	.2700-02	.4589-02	.2470	1.580	568.9
299	55.000	.22000	759.00	.1343	.9140-01	.1435	.9432	.5714-02	.8972-02	.5910	4.372	557.0
299	55.000	.25000	760.00	.7550-01	.5150-01	.8080-01	.9430	.3220-02	.5054-02	.3340	2.605	556.5
299	55.000	.27000	761.00	.8240-01	.5570-01	.8830-01	.9430	.3481-02	.5522-02	.3550	2.622	558.5
299	55.000	.30000	762.00	.1121	.7670-01	.1198	.9430	.4797-02	.7491-02	.5020	3.005	555.7
299	55.000	.32000	763.00	.1174	.8100-01	.1252	.9430	.5065-02	.7830-02	.5400	3.183	553.7
299	55.000	.34000	764.00	.1198	.8260-01	.1278	.9430	.5165-02	.7993-02	.5490	3.247	553.9
299	55.000	.36000	765.00	.1248	.8600-01	.1332	.9430	.5379-02	.8330-02	.5710	3.423	554.1
299	55.000	.38000	766.00	.1267	.8740-01	.1352	.9430	.5465-02	.8452-02	.5820	3.526	553.8
299	55.000	.40000	767.00	.1240	.8540-01	.1324	.9430	.5342-02	.8278-02	.5670	3.530	554.2
299	55.000	.42000	768.00	.1227	.8350-01	.1313	.9430	.5223-02	.8210-02	.5400	3.997	556.9
299	67.500	.23000	769.00	.7400-01	.5050-01	.7910-01	.9430	.3160-02	.4949-02	.3290	2.548	555.2
299	67.500	.25000	770.00	.1021	.6890-01	.1095	.9430	.4306-02	.6844-02	.4370	3.168	558.8
299	67.500	.27000	771.00	.8180-01	.5580-01	.8760-01	.9430	.3491-02	.5475-02	.3630	2.236	556.4
299	67.500	.30000	772.00	.1145	.7820-01	.1225	.9430	.4890-02	.7659-02	.5090	3.096	556.2
299	67.500	.31000	773.00	.1193	.8170-01	.1276	.9430	.5106-02	.7978-02	.5340	3.221	555.8
299	67.500	.32000	774.00	.1179	.8100-01	.1260	.9430	.5066-02	.7876-02	.5340	3.200	554.8
299	67.500	.32500	775.00	.1176	.8100-01	.1255	.9430	.5063-02	.7849-02	.5370	3.226	554.2
299	67.500	.33000	776.00	.1206	.8270-01	.1289	.9430	.5170-02	.8057-02	.5430	3.269	555.3
299	67.500	.33500	777.00	.1199	.8250-01	.1280	.9430	.5159-02	.8003-02	.5470	3.291	554.4
299	67.500	.34000	778.00	.1196	.8240-01	.1276	.9430	.5150-02	.7981-02	.5460	3.291	554.2
299	67.500	.34500	779.00	.1195	.8230-01	.1276	.9430	.5144-02	.7977-02	.5450	3.291	554.3
299	67.500	.35000	780.00	.1181	.8150-01	.1260	.9430	.5036-02	.7879-02	.5430	3.289	553.8
299	67.500	.36000	782.00	.1184	.8150-01	.1264	.9430	.5098-02	.7902-02	.5410	3.283	554.2
299	67.500	.36500	783.00	.1173	.8090-01	.1252	.9430	.5059-02	.7828-02	.5380	3.261	553.9
299	67.500	.37000	784.00	.1149	.7930-01	.1226	.9430	.4961-02	.7668-02	.5290	3.221	553.7
299	67.500	.37500	785.00	.1063	.7310-01	.1135	9430	.4572-02	.7094-02	.4840	2.971	554.4
299	67.500	.38000	786.00	.1119	.7690-01	.1195	.9430	.4811-02	.7479-02	.5090	3.130	554.6
299	67.500	.39000	787.00	.1108	.7610-01	.1184	.9430	.4759-02	.7401-02	.5020	3.097	554.9
299	67.500	.40000	788.00	.1128	.7750-01	.1205	.9430	.4845-02	.7535-02	.5110	3.180	554.9
299	67.500	.50000	789.00	.1150	.7700-01	.1235	.9430	.4816-02	.7725-02	.4810	3.065	560.4
299	67.500	.60000	790.00	.1209	.8120-01	.1299	.9430	.5074-02	.8120-02	.5090	3.320	559.9
299	67.500	.70000	791.00	.1149	.7420-01	.1245	.9430	.4639-02	.7785-02	.4320	3.020	567.2
299	67.500	.80000	792.00	.1143	.7570-01	.1230	.9430	.4732-02	.7693-02	.4630	2.885	562.5
299	67.500	.90000	793.00	.8070-01	.5250-01	.8730-01	.9430	.3282-02	.5459-02	.3100	1.979	565.9

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HRCF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
299	78.000	.27000	794.00	.1013	.6830-01	.1087	.9430	.4268-02	.6796-02	.4320	3.060	559.1
299	78.000	.29000	795.00	.8560-01	.5870-01	.9150-01	.9430	.3670-02	.5723-02	.3850	2.363	555.4
300	78.000	.30000	796.00	.1183	.7980-01	.1269	.9430	.4983-02	.7924-02	.5040	3.039	557.4
300	78.000	.31000	797.00	.1170	.7920-01	.1254	.9430	.4946-02	.7831-02	.5040	3.040	556.6
300	78.000	.32000	798.00	.1139	.7720-01	.1220	.9430	.4823-02	.7615-02	.4940	2.963	556.1
300	78.000	.32500	799.00	.1185	.8070-01	.1268	.9430	.5041-02	.7918-02	.5210	3.135	555.2
300	78.000	.33000	800.00	.1177	.7990-01	.1261	.9430	.4991-02	.7872-02	.5120	3.090	556.0
300	78.000	.33500	801.00	.1166	.7950-01	.1247	.9430	.4963-02	.7786-02	.5140	3.093	555.0
300	78.000	.34000	802.00	.1128	.7660-01	.1208	.9430	.4784-02	.7540-02	.4910	2.956	555.8
300	78.000	.34500	803.00	.1158	.7920-01	.1239	.9430	.4942-02	.7734-02	.5140	3.104	554.5
300	78.000	.35000	804.00	.1175	.8020-01	.1257	.9430	.5005-02	.7851-02	.5180	3.129	555.0
300	78.000	.35500	805.00	.1173	.8020-01	.1254	.9430	.5005-02	.7830-02	.5210	3.144	554.5
300	78.000	.36000	806.00	.1086	.7400-01	.1161	.9430	.4623-02	.7253-02	.4790	2.897	555.0
300	78.000	.36500	807.00	.1092	.7460-01	.1167	.9430	.4657-02	.7289-02	.4840	2.940	554.6
300	78.000	.37000	808.00	.1095	.7470-01	.1172	.9430	.4662-02	.7316-02	.4820	2.936	555.0
300	78.000	.37500	809.00	.1164	.7920-01	.1246	.9430	.4945-02	.7779-02	.5100	3.101	555.5
300	79.000	.38000	810.00	.1113	.7580-01	.1191	.9430	.4736-02	.7438-02	.4890	2.994	555.2
300	78.000	.39000	811.00	.1214	.8220-01	.1300	.9430	.5132-02	.8120-02	.5230	3.210	556.5
300	78.000	.40000	812.00	.8600-01	.5830-01	.9180-01	.9430	.3700-02	.5731-02	.3920	2.408	552.6
300	90.000	.20000	813.00	.1650-01	.1160-01	.1760-01	.9430	.7240-03	.1098-02	.8000-01	.5800	548.3
300	90.000	.24000	814.00	.1024	.6930-01	.1101	.9430	.4267-02	.6875-02	.4220	3.393	559.6
300	90.000	.27000	816.00	.9350-01	.6500-01	.1070	.9430	.4126-02	.6694-02	.4040	2.850	560.6
300	90.000	.29000	817.00	.9550-01	.6420-01	.1025	.9430	.4010-02	.6398-02	.4030	2.492	558.0
300	90.000	.30000	818.00	.1314	.8830-01	.1411	.9430	.5515-02	.9809-02	.5540	3.365	558.1
300	90.000	.31000	819.00	.1212	.8200-01	.1299	.9430	.5119-02	.8110-02	.5210	3.143	556.7
300	90.000	.32000	820.00	.1210	.8140-01	.1294	.9430	.5146-02	.8082-02	.5320	3.200	555.2
300	90.000	.32500	821.00	.1151	.7840-01	.1232	.9430	.4891-02	.7691-02	.5040	3.027	555.4
300	90.000	.33000	822.00	.1171	.8020-01	.1251	.9430	.5007-02	.7814-02	.5230	3.152	554.0
300	90.000	.34000	824.00	.1208	.8280-01	.1291	.9430	.5169-02	.8064-02	.5400	3.246	554.0
300	90.000	.34500	825.00	.1155	.7950-01	.1235	.9430	.4963-02	.7712-02	.5230	3.149	553.2
300	90.000	.35000	826.00	.1188	.8110-01	.1270	.9430	.5065-02	.7930-02	.5260	3.169	554.6
300	90.000	.35500	827.00	.1167	.7970-01	.1249	.9430	.4981-02	.7796-02	.5120	3.073	555.3
300	90.000	.36000	828.00	.1156	.7930-01	.1237	.9430	.4919-02	.7724-02	.5090	3.062	555.1
300	90.000	.36500	829.00	.1139	.7810-01	.1217	.9430	.4876-02	.7602-02	.5100	3.082	553.9
300	90.000	.37000	830.00	.1139	.7810-01	.1217	.9430	.4876-02	.7602-02	.5100	3.081	554.6
300	90.000	.37500	831.00	.1175	.8130-01	.1257	.9430	.5011-02	.7846-02	.5210	3.101	554.6
300	90.000	.38000	832.00	.1185	.7890-01	.1203	.9430	.4800-02	.7513-02	.4990	3.028	554.6
300	90.000	.39000	833.00	.1131	.7590-01	.1210	.9430	.4804-02	.7556-02	.4860	3.038	555.4
300	90.000	.40000	834.00	.1125	.7560-01	.1205	.9430	.4780-02	.7521-02	.4920	3.029	555.5
300	90.000	.50000	835.00	.1173	.7750-01	.1264	.9430	.4840-02	.7694-02	.4700	2.946	561.5
300	90.000	.60000	836.00	.1194	.7970-01	.1284	.9430	.4979-02	.8016-02	.4930	3.265	559.4
300	90.000	.70000	837.00	.1099	.7310-01	.1188	.9430	.4442-02	.7417-02	.4160	2.899	565.0
300	90.000	.80000	838.00	.1188	.7900-01	.1282	.9430	.4874-02	.8007-02	.4680	2.682	562.6
300	90.000	.90000	839.00	.8220-01	.5320-01	.8910-01	.9430	.3320-02	.5561-02	.3090	1.959	565.4

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
300	112.50	.23000	840.00	.1167	.7850-01	.1252	.9430	.4901-02	.7817-02	.4930	3.950	558.0
300	112.50	.25000	841.00	.6860-01	.4610-01	.7360-01	.9430	.2879-02	.4598-02	.2890	2.228	558.1
300	112.50	.30000	843.00	.1134	.7640-01	.1216	.9430	.4771-02	.7593-02	.4820	2.851	557.5
300	112.50	.33000	844.00	.1166	.7840-01	.1248	.9430	.4960-02	.7790-02	.5120	3.076	555.2
300	112.50	.35000	845.00	.1123	.7680-01	.1200	.9430	.4794-02	.7496-02	.4990	3.048	554.4
300	112.50	.37000	846.00	.1152	.7850-01	.1232	.9430	.4904-02	.7693-02	.5080	3.117	555.0
300	112.50	.40000	847.00	.1113	.7620-01	.1190	.9430	.4755-02	.7432-02	.4950	3.076	554.3
300	112.50	.45000	848.00	.1139	.7760-01	.1219	.9430	.4847-02	.7613-02	.5010	3.133	555.2
300	112.50	.50000	849.00	.1166	.7750-01	.1255	.9430	.4839-02	.7838-02	.4750	3.031	560.4
300	112.50	.55000	850.00	.8930-01	.5920-01	.9610-01	.9430	.3697-02	.6001-02	.3610	2.397	560.8
300	112.50	.60000	851.00	.1191	.8000-01	.1279	.9430	.4993-02	.7986-02	.5000	3.333	558.3
300	112.50	.65000	852.00	.1250	.8350-01	.1343	.9430	.5215-02	.8387-02	.5180	3.499	559.3
300	112.50	.70000	853.00	.1182	.7750-01	.1275	.9430	.4841-02	.7962-02	.4640	3.227	562.8
300	112.50	.75000	854.00	.9510-01	.6170-01	.1029	.9430	.3855-02	.6424-02	.3620	2.325	564.7
300	112.50	.80000	855.00	.1146	.7550-01	.1235	.9430	.4715-02	.7713-02	.4550	2.940	561.9
300	112.50	.90000	856.00	.8370-01	.5420-01	.9060-01	.9430	.3384-02	.5658-02	.3160	2.031	565.1
300	125.40	.84000	857.00	.1172	.7770-01	.1261	.9430	.4850-02	.7877-02	.4740	2.907	560.8
300	125.40	.85000	858.00	.1194	.7870-01	.1287	.9430	.4916-02	.8033-02	.4750	2.932	561.8
300	125.40	.86000	859.00	.1154	.7590-01	.1245	.9430	.4737-02	.7775-02	.4550	2.829	562.5
300	125.40	.87000	860.00	.1139	.7500-01	.1228	.9430	.4684-02	.7670-02	.4520	2.816	562.1
300	125.40	.88000	861.00	.1218	.7950-01	.1316	.9430	.4965-02	.8220-02	.4710	2.933	563.7
300	125.40	.89000	862.00	.1181	.7700-01	.1276	.9430	.4811-02	.7970-02	.4560	2.855	563.8
300	125.40	.90000	863.00	.1029	.6580-01	.1113	.9430	.4173-02	.6950-02	.3920	2.470	564.6
300	125.40	.91000	864.00	.6770-01	.4450-01	.7300-01	.9430	.2777-02	.4558-02	.2670	1.925	562.4
300	125.40	.92600	865.00	.7420-01	.4740-01	.8060-01	.9430	.2962-02	.5031-02	.2700	1.940	567.2
300	129.30	.80000	866.00	.1189	.7850-01	.1281	.9430	.4904-02	.8002-02	.4750	2.966	561.6
300	129.30	.81000	867.00	.1175	.7800-01	.1264	.9430	.4871-02	.7893-02	.4780	2.964	560.5
300	129.30	.82000	868.00	.1097	.7300-01	.1181	.9430	.4559-02	.7372-02	.4490	2.785	560.1
300	129.30	.83000	869.00	.1122	.7460-01	.1207	.9430	.4660-02	.7540-02	.4580	2.851	560.2
300	135.00	.40000-01	870.00	.6098	.3584	.4513	.9750	.2238-01	.2818-01	1.788	11.31	578.6
300	135.00	.50000-01	871.00	.6742	.3989	.5197	.9715	.2491-01	.3245-01	2.008	12.64	577.9
300	135.00	.60000-01	872.00	.7029	.3559	.5184	.9683	.2222-01	.3237-01	1.482	9.622	591.8
300	135.00	.70000-01	873.00	.8033	.3844	.6035	.9652	.2400-01	.3769-01	1.515	10.06	595.4
300	135.00	.10000+00	875.00	.3936	.2355	.3585	.9573	.1471-01	.2238-01	1.206	7.797	576.5
300	135.00	.15000	876.00	.2575	.1569	.2634	.9483	.9798-02	.1645-01	.8260	5.960	574.2
300	135.00	.20000	877.00	.1706	.1126	.1821	.9438	.7034-02	.1137-01	.6820	4.364	561.6
300	135.00	.35000	878.00	.1210	.8260-01	.1295	.9430	.5156-02	.8085-02	.5340	3.307	554.9
300	135.00	.40000	879.00	.1162	.7910-01	.1244	.9430	.4941-02	.7766-02	.5100	3.218	555.3
300	135.00	.50000	880.00	.1043	.6950-01	.1121	.9430	.4338-02	.7001-02	.4280	2.920	559.8
300	135.00	.55000	881.00	.9250-01	.6140-01	.9960-01	.9430	.3831-02	.6220-02	.3740	2.477	560.8
300	135.00	.60000	882.00	.1158	.7730-01	.1245	.9430	.4825-02	.7774-02	.4770	3.188	559.6
300	135.00	.65000	883.00	.1157	.7770-01	.1242	.9430	.4852-02	.7757-02	.4860	3.299	558.3
300	135.00	.70000	884.00	.1127	.7400-01	.1216	.9430	.4620-02	.7596-02	.4420	3.120	562.7

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F14)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
300	135.00	.75000	885.00	.1029	.6710-01	.1112	.9430	.4189-02	.6944-02	.3960	2.475	563.9
300	135.00	.80000	886.00	.1230	.8210-01	.1323	.9430	.5128-02	.8258-02	.5080	3.170	559.5
300	135.00	.84000	887.00	.7590-01	.5980-01	.9460-01	.9130	.2678-02	.4234-02	.0000	.0000	244.7
298	180.00	.40000-01	600.00	.5947	.3386	.4315	.9750	.2117-01	.2697-01	1.612	10.20	580.0
298	180.00	.50000-01	601.00	.5723	.3282	.4336	.9715	.2052-01	.2711-01	1.578	10.01	579.2
298	180.00	.60000-01	602.00	.5848	.2977	.4326	.9682	.1861-01	.2705-01	1.243	8.107	589.3
298	180.00	.70000-01	603.00	.6685	.3061	.4919	.9652	.1914-01	.3075-01	1.158	7.714	595.6
298	180.00	.80000-01	604.00	.5240	.2705	.4257	.9623	.1691-01	.2661-01	1.147	7.309	588.3
298	180.00	.10000+00	605.00	.3191	.1863	.2891	.9573	.1165-01	.1807-01	.9190	6.493	577.3
298	180.00	.15000	606.00	.2231	.1307	.2287	.9483	.8169-02	.1439-01	.[illegible]70	4.634	576.9
298	180.00	.20000	607.00	.1497	.9550-01	.1610	.9473	.5971-02	.1006-01	.5410	3.496	565.5
298	180.00	.21000	608.00	.1308	.8460-01	.1409	.9434	.5289-02	.8805-02	.4910	3.368	563.2
298	180.00	.22000	609.00	.1130	.7340-01	.1220	.9432	.4590-02	.7625-02	.4300	3.173	562.5
298	180.00	.30000	610.00	.9230-01	.6110-01	.9940-01	.9430	.3818-02	.6215-02	.3700	2.519	559.2
298	180.00	.35000	611.00	.8920-01	.5930-01	.9600-01	.9430	.3706-02	.6004-02	.3620	2.399	558.4
298	180.00	.36000	612.00	.9230-01	.6120-01	.9930-01	.9430	.3828-02	.6210-02	.3730	2.493	558.6
298	180.00	.37500	614.00	.9510-01	.6290-01	.1025	.9430	.3931-02	.6408-02	.3800	2.539	559.4
298	180.00	.38000	615.00	.9400-01	.6230-01	.1012	.9430	.3894-02	.6329-02	.3790	2.529	558.9
298	180.00	.38500	616.00	.9730-01	.6440-01	.1048	.9430	.4025-02	.6552-02	.3900	2.607	559.2
298	180.00	.39000	617.00	.1003	.6580-01	.1079	.9430	.4174-02	.6743-02	.4100	2.731	558.0
298	180.00	.39500	618.00	.1001	.6540-01	.1078	.9430	.4148-02	.6742-02	.4030	2.702	558.9
298	180.00	.40000	619.00	.1016	.6730-01	.1094	.9430	.4208-02	.6840-02	.4090	2.725	558.9
298	180.00	.40500	620.00	.1064	.7060-01	.1145	.9430	.4412-02	.7158-02	.4300	2.874	558.6
298	180.00	.41000	621.00	.1114	.7370-01	.1200	.9430	.4610-02	.7531-02	.4470	2.988	559.1
298	180.00	.41500	622.00	.1144	.7580-01	.1231	.9430	.4739-02	.7688-02	.4610	3.070	558.8
298	180.00	.42500	624.00	.1055	.6980-01	.1137	.9430	.4354-02	.7106-02	.4200	2.795	559.7
298	180.00	.43000	625.00	.9940-01	.6580-01	.1071	.9430	.4111-02	.6694-02	.3980	2.661	559.2
298	180.00	.44000	626.00	.9430-01	.6250-01	.1015	.9430	.3906-02	.6345-02	.3800	2.533	558.8
298	180.00	.44500	627.00	.9820-01	.6490-01	.1058	.9430	.4059-02	.6614-02	.3930	2.647	559.4
298	180.00	.45000	628.00	.9650-01	.6380-01	.1041	.9430	.3993-02	.6505-02	.3880	2.613	559.1
298	180.00	.45500	629.00	.9290-01	.6170-01	.1000+00	.9430	.3857-02	.6254-02	.3760	2.526	558.6
298	180.00	.46000	630.00	.9520-01	.6300-01	.1025	.9430	.3940-02	.6410-02	.3830	2.555	559.1
298	180.00	.47000	631.00	.1015	.6670-01	.1095	.9430	.4170-02	.6806-02	.3990	2.663	560.5
298	180.00	.48000	632.00	.1028	.6650-01	.1086	.9430	.4157-02	.6789-02	.4010	2.654	559.7
298	180.00	.49000	633.00	.9700-01	.6480-01	.1054	.9430	.4050-02	.6601-02	.3930	2.665	559.1
298	180.00	.50000	634.00	.8870-01	.5900-01	.9540-01	.9430	.3692-02	.5963-02	.3620	2.521	558.0
298	180.00	.55000	635.00	.8360-01	.5530-01	.9000-01	.9430	.3455-02	.5626-02	.3350	2.210	559.2
298	180.00	.60000	636.00	.1088	.7130-01	.1175	.9430	.4457-02	.7343-02	.4240	2.715	561.0
298	180.00	.65000	637.00	.1146	.7500-01	.1237	.9430	.4698-02	.7732-02	.4480	2.876	560.8
298	180.00	.70000	638.00	.1113	.7320-01	.1201	.9430	.4576-02	.7537-02	.4380	2.981	560.3
298	180.00	.75000	639.00	.9161-01	.6040-01	.9960-01	.9430	.3777-02	.6162-02	.3650	2.339	559.5
298	180.00	.80000	640.00	.1039	.6830-01	.1121	.9430	.4271-02	.7038-02	.4090	2.546	560.4
298	180.00	.85000	641.00	.1108	.7210-01	.1198	.9430	.4511-02	.7490-02	.4240	2.660	562.1

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F14)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TJ	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
298	180.00	.85000	642.00	.1073	.6980-01	.1160	.9430	.4366-02	.7252-02	.4100	2.610	562.2
298	180.00	.87000	643.00	.1129	.7320-01	.1222	.9430	.4576-02	.7638-02	.4270	2.731	562.8
298	180.00	.88000	644.00	.1186	.7690-01	.1284	.9430	.4808-02	.8028-02	.4480	2.892	562.9
298	180.00	.89000	645.00	.1152	.7470-01	.1247	.9430	.4668-02	.7796-02	.4350	2.841	562.9
298	180.00	.90000	646.00	.9550-01	.6270-01	.1030	.9430	.3921-02	.6438-02	.3750	2.504	560.5
298	180.00	.95000	649.00	.9820-01	.6510-01	.1057	.9430	.4072-02	.6608-02	.3970	2.849	558.7
298	191.25	.35000	650.00	.1058	.6990-01	.1141	.9430	.4371-02	.7130-02	.4220	2.821	559.5
298	191.25	.36000	651.00	.1017	.6740-01	.1095	.9430	.4214-02	.6847-02	.4100	2.746	558.9
298	191.25	.37000	652.00	.1048	.6960-01	.1128	.9430	.4349-02	.7050-02	.4250	2.637	558.5
298	191.25	.37500	653.00	.8340-01	.5580-01	.8960-01	.9430	.3491-02	.5601-02	.3470	2.325	556.9
298	191.25	.38000	654.00	.9370-01	.6220-01	.1008	.9430	.3889-02	.6301-02	.3800	2.547	558.4
298	191.25	.38500	655.00	.9370-01	.6210-01	.1009	.9430	.3881-02	.6311-02	.3770	2.526	559.0
298	191.25	.39000	656.00	.9700-01	.6410-01	.1046	.9430	.4007-02	.6536-02	.3870	2.595	559.5
298	191.25	.39500	657.00	.9770-01	.6460-01	.1053	.9430	.4040-02	.6581-02	.3910	2.622	559.3
298	191.25	.40000	658.00	.1011	.6660-01	.1090	.9430	.4165-02	.6815-02	.4010	2.691	559.9
298	191.25	.41000	660.00	.1004	.6620-01	.1083	.9430	.4140-02	.6768-02	.3990	2.671	559.8
298	191.25	.41500	661.00	.1033	.6870-01	.1111	.9430	.4294-02	.6947-02	.4210	2.811	558.2
298	191.25	.42000	662.00	.1073	.7040-01	.1159	.9430	.4402-02	.7243-02	.4200	2.810	560.8
298	191.25	.42500	663.00	.1092	.7180-01	.1178	.9430	.4491-02	.7363-02	.4310	2.892	560.3
298	191.25	.43000	664.00	.1052	.6910-01	.1135	.9430	.4322-02	.7095-02	.4130	2.802	560.5
298	191.25	.44000	665.00	.1019	.6680-01	.1099	.9430	.4177-02	.6872-02	.3980	2.683	560.8
298	191.25	.45000	666.00	.1078	.7080-01	.1163	.9430	.4427-02	.7269-02	.4230	2.852	560.5
298	191.25	.45500	667.00	.1076	.7080-01	.1161	.9430	.4427-02	.7257-02	.4250	2.861	560.2
298	191.25	.46000	668.00	.1121	.7410-01	.1208	.9430	.4631-02	.7549-02	.4480	3.028	559.4
298	191.25	.47000	669.00	.1102	.7260-01	.1187	.9430	.4542-02	.7423-02	.4380	2.967	559.9
298	191.25	.48000	670.00	.1157	.7660-01	.1246	.9430	.4787-02	.7789-02	.4650	3.151	559.1
298	191.25	.49000	671.00	.1183	.7800-01	.1277	.9430	.4876-02	.7969-02	.4700	3.176	559.8
298	191.25	.50000	672.00	.1073	.7130-01	.1155	.9430	.4455-02	.7220-02	.4350	3.007	558.5
298	191.25	.60000	673.00	.1110	.7250-01	.1199	.9430	.4535-02	.7497-02	.4290	2.733	561.5
298	191.25	.70000	674.00	.1159	.7470-01	.1256	.9430	.4670-02	.7849-02	.4310	2.909	563.8
298	191.25	.85000	676.00	.1057	.6870-01	.1113	.9430	.4284-02	.7147-02	.4020	2.523	562.5
298	191.25	.86000	677.00	.1108	.7180-01	.1199	.9430	.4486-02	.7498-02	.4180	2.648	563.0
298	191.25	.87000	678.00	.1004	.6500-01	.1087	.9430	.4066-02	.6797-02	.3780	2.420	563.1
298	191.25	.88000	679.00	.1022	.6610-01	.1106	.9430	.4130-02	.6917-02	.3830	2.481	563.3
298	191.25	.89000	680.00	.1058	.6820-01	.1146	.9430	.4263-02	.7167-02	.3940	2.584	563.8
298	191.25	.90000	681.00	.9140-01	.5920-01	.9900-01	.9430	.3701-02	.6189-02	.3440	2.302	563.1
298	191.25	.91000	682.00	.5520-01	.3630-01	.5960-01	.9430	.2270-02	.3726-02	.2170	1.573	560.5
298	191.25	.92600	683.00	.6780-01	.4380-01	.7340-01	.9430	.2741-02	.4587-02	.2550	1.849	563.2
298	191.25	.95000	684.00	.9650-01	.6400-01	.1039	.9430	.4002-02	.6497-02	.3900	2.798	558.7
298	197.00	.33000	685.00	.1052	.6950-01	.1134	.9430	.4344-02	.7087-02	.4200	2.803	559.5
298	197.00	.34000	686.00	.1062	.7000-01	.1145	.9430	.4374-02	.7155-02	.4210	2.810	559.9
298	197.00	.35000	687.00	.1046	.6910-01	.1127	.9430	.4322-02	.7044-02	.4180	2.795	559.3
298	197.00	.36000	688.00	.1041	.6870-01	.1122	.9430	.4292-02	.7014-02	.4140	2.762	559.8

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F14)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
298	197.00	.37000	689.00	.9370-01	.6210-01	.1008	.9430	.3885-02	.6305-02	.3790	2.530	558.7
298	197.00	.37500	690.00	.1219	.8020-01	.1315	.9430	.5014-02	.8221-02	.4810	3.219	560.3
298	197.00	.50000	691.00	.1081	.7140-01	.1165	.9430	.4465-02	.7281-02	.4320	2.884	559.4
298	197.00	.60000	692.00	.1169	.7640-01	.1262	.9430	.4776-02	.7893-02	.4520	2.895	561.4
298	197.00	.70000	693.00	.1106	.7180-01	.1196	.9430	.4489-02	.7477-02	.4200	2.827	562.6
298	197.00	.80000	694.00	.1071	.6970-01	.1158	.9430	.4357-02	.7241-02	.4090	2.551	562.2
298	197.00	.87000	695.00	.1171	.7540-01	.1269	.9430	.4715-02	.7931-02	.4350	2.749	563.9
298	197.00	.92600	696.00	.7370-01	.4770-01	.7980-01	.9430	.2981-02	.4989-02	.2770	2.011	563.2
298	209.80	.15000-01	697.00	.2280	.1490	.2463	.9430	.9313-02	.1540-01	.8810	6.005	561.5
299	209.80	.30000-01	698.00	.6846	.3881	.4871	.9765	.2427-01	.3046-01	1.850	12.35	584.1
299	209.80	.50000-01	699.00	.6025	.3695	.4739	.9715	.2310-01	.2963-01	1.973	12.36	574.9
299	209.80	.70000-01	700.00	.6011	.3278	.4797	.9652	.2049-01	.3000-01	1.488	9.858	587.7
299	209.80	.10000+00	701.00	.3897	.2383	.3567	.9573	.1490-01	.2230-01	1.266	7.955	575.3
299	209.80	.15000	702.00	.2407	.1492	.2467	.9483	.9331-02	.1538-01	.8100	5.720	573.5
299	209.80	.20000	703.00	.1633	.1100	.1736	.9438	.6880-02	.1085-01	.6970	4.613	559.0
299	209.80	.30000	704.00	.1090	.7410-01	.1166	.9430	.4636-02	.7292-02	.4790	3.377	557.0
299	209.80	.37500	706.00	.1031	.7150-01	.1099	.9430	.4471-02	.6873-02	.4820	3.297	552.6
299	209.80	.50000	707.00	.1092	.7410-01	.1169	.9430	.4634-02	.7309-02	.4770	3.244	557.5
299	209.80	.60000	708.00	.1226	.8370-01	.1311	.9430	.5236-02	.8196-02	.5460	3.462	556.1
299	209.80	.70000	709.00	.1123	.7480-01	.1207	.9430	.4677-02	.7549-02	.4630	2.927	561.4
299	209.80	.80000	710.00	.1167	.7880-01	.1252	.9430	.4924-02	.7829-02	.5000	3.095	558.8
299	209.80	.87000	711.00	.1258	.8400-01	.1352	.9430	.5251-02	.8455-02	.5220	3.273	561.0
299	209.80	.92600	712.00	.7200-01	.4780-01	.7760-01	.9430	.2987-02	.4849-02	.2930	2.111	562.3
299	217.70	.15000-01	713.00	.2314	.1587	.2473	.9430	.9921-02	.1546-01	1.042	7.144	555.3
299	217.70	.30000-01	714.00	.6821	.3830	.4822	.9765	.2395-01	.3015-01	1.803	12.03	585.0
299	217.70	.50000-01	715.00	.6190	.3834	.4896	.9715	.2397-01	.3061-01	2.079	13.38	573.6
299	217.70	.70000-01	716.00	.5639	.3069	.4497	.9652	.1919-01	.2812-01	1.390	9.293	587.9
299	217.70	.10000+00	717.00	.3885	.2390	.3560	.9573	.1494-01	.2226-01	1.282	8.199	574.5
299	217.70	.15000	718.00	.2427	.1528	.2478	.9483	.9554-02	.1549-01	.8520	6.156	571.2
299	217.70	.20000	719.00	.1706	.1156	.1812	.9438	.7229-02	.1133-01	.7410	4.967	557.8
299	217.70	.30000	720.00	.1125	.7650-01	.1205	.9430	.4785-02	.7533 02	.4940	3.513	557.1
299	217.70	.35000	721.00	.1138	.7870-01	.1213	.9430	.4922-02	.7586-02	.5270	3.644	553.1
299	217.70	.37500	722.00	.1077	.7460-01	.1148	.9430	.4662-02	.7179-02	.5010	3.459	552.9
299	217.70	.50000	723.00	.9920-01	.6780-01	.1061	.9430	.4237-02	.6634 02	.4410	3.035	555.1
299	217.70	.70000	725.00	.1186	.7960-01	.1273	.9430	.4978-02	.7960-02	.5000	3.159	559.8
299	217.70	.80000	726.00	.1256	.8500-01	.1346	.9430	.5318-02	.8419-02	.5430	3.395	558.1
299	217.70	.87000	727.00	.1246	.8360-01	.1338	.9430	.5227-02	.8369-02	.5240	3.328	560.1
299	217.70	.92600	728.00	.7120-01	.4730-01	.7670-01	.9430	.2958-02	.4794-02	.2910	2.098	562.0

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = .0000 BETA = .0000 GRIT = 3.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
98	3.510	4.781	-.1000-01	.0000	.0000	57.00	.7370	682.0	196.9	6.356	2413.	.3140-03
100	3.510	4.796	.1000-01	.0000	.0000	57.00	.7370	681.0	196.5	6.358	2411.	.3147-03
280	3.510	4.817	.1000-01	.0000	.0000	56.80	.7340	677.0	195.4	6.333	2404.	.3152-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
98	.1585-06	.5540-01	.9295-02
100	.1582-06	.5539-01	.9282-02
280	.1574-06	.5524-01	.9267-02

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO.	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ F FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
100	67.500	.60000	790.00	.6040-01	.4480-01	.7140-01	.9278	.2480-02	.3957-02	.3260	2.138	548.7
100	67.500	.70000	791.00	.5310-01	.3920-01	.6310-01	.9278	.2170-02	.3498-02	.2810	1.980	550.8
100	67.500	.80000	792.00	.6220-01	.4630-01	.7340-01	.9278	.2563-02	.4067-02	.3410	2.140	547.4
100	67.500	.90000	793.00	.4080-01	.3030-01	.4820-01	.9278	.1676-02	.2669-02	.2210	1.426	548.2
100	78.000	.27000	794.00	.5190-01	.3840-01	.6160-01	.9278	.2127-02	.3413-02	.2770	1.973	549.9
100	78.000	.29000	795.00	.4920-01	.3580-01	.6340-01	.9202	.1696-02	.3008-02	.2070	1.278	545.1
100	78.000	.30000	796.00	.5850-01	.4350-01	.6910-01	.9278	.2410-02	.3829-02	.3200	1.935	548.2
100	78.000	.31000	797.00	.5960-01	.4440-01	.7040-01	.9278	.2458-02	.3899-02	.3270	1.980	547.8
100	78.000	.32000	798.00	.6130-01	.4570-01	.7220-01	.9278	.2530-02	.4000-02	.3380	2.039	547.1
100	78.000	.32500	799.00	.6290-01	.4690-01	.7420-01	.9278	.2599-02	.4108-02	.3480	2.101	547.0
100	78.000	.33000	800.00	.6120-01	.4570-01	.7210-01	.9278	.2530-02	.3991-02	.3400	2.053	546.6
100	78.000	.33500	801.00	.6210-01	.4630-01	.7320-01	.9278	.2564-02	.4053-02	.3430	2.074	547.0
100	78.000	.34000	802.00	.5990-01	.4470-01	.7050-01	.9278	.2476-02	.3903-02	.3330	2.014	546.3
100	78.000	.34500	803.00	.5880-01	.4390-01	.6920-01	.9278	.2430-02	.3831-02	.3270	1.981	546.4
100	78.000	.35000	804.00	.6010-01	.4490-01	.7070-01	.9278	.2485-02	.3916-02	.3340	2.027	546.3
100	78.000	.35500	805.00	.6190-01	.4630-01	.7280-01	.9278	.2562-02	.4034-02	.3450	2.093	546.1
100	78.000	.36000	806.00	.4790-01	.3580-01	.5630-01	.9278	.1986-02	.3116-02	.2690	1.636	545.3
100	78.000	.36500	807.00	.6070-01	.4530-01	.7140-01	.9278	.2511-02	.3956-02	.3380	2.050	546.2

(RV7F14)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
100	78.000	.37000	808.00	.5730-01	.4270-01	.6750-01	.9278	.2367-02	.3736-02	.3180	1.941	546.7
100	78.000	.37500	809.00	.5560-01	.4140-01	.6550-01	.9278	.2295-02	.3628-02	.3070	1.877	547.0
100	78.000	.38000	810.00	.5820-01	.4350-01	.6860-01	.9278	.2408-02	.3800-02	.3230	1.987	546.6
100	78.000	.39000	811.00	.6790-01	.5080-01	.7990-01	.9278	.2813-02	.4427-02	.3790	2.338	545.0
100	78.000	.40000	812.00	.6110-01	.4570-01	.7180-01	.9278	.2532-02	.3979-02	.3420	2.109	545.7
280	90.000	.40000-01	985.00	.4984	.3288	.4389	.9631	.1816-01	.2424-01	1.807	11.57	577.5
280	90.000	.50000-01	986.00	.5094	.3370	.4639	.9596	.1852-01	.2553-01	1.862	11.86	577.0
280	90.000	.60000-01	987.00	.4708	.2894	.4367	.9562	.1598-01	.2412-01	1.404	9.047	569.2
280	90.000	.80000-01	989.00	.3994	.2557	.3989	.9501	.1412-01	.2204-01	1.329	9.249	582.9
280	90.000	.15000	991.00	.1516	.1035	.1769	.9346	.5722-02	.9772-02	.6110	4.436	570.2
100	90.000	.20000	813.00	.6160-01	.4570-01	.7290-01	.9279	.2532-02	.4037-02	.3340	2.423	549.1
100	90.000	.24000	814.00	.4750-01	.3520-01	.5620-01	.9278	.1951-02	.3113-02	.2570	2.076	549.1
100	90.000	.27000	816.00	.5170-01	.3840-01	.6110-01	.9278	.2129-02	.3326-02	.2820	2.002	548.4
100	90.000	.29000	817.00	.5040-01	.3750-01	.5940-01	.9278	.2078-02	.3230-02	.2770	1.722	54 .4
100	90.000	.30000	818.00	.6010-01	.4460-01	.7100-01	.9278	.2471-02	.3934-02	.3270	1.995	548.6
100	90.000	.31000	819.00	.6070-01	.4510-01	.7170-01	.9278	.2493-02	.3970-02	.3320	2.009	548.1
100	90.000	.32000	820.00	.6420-01	.4780-01	.7570-01	.9278	.2650-02	.4195-02	.3540	2.137	547.3
100	90.000	.32500	821.00	.6300-01	.4690-01	.7420-01	.9278	.2600-02	.4112-02	.3480	2.096	547.1
100	90.000	.33000	822.00	.6320-01	.4720-01	.7440-01	.9278	.2614-02	.4121-02	.3520	2.126	546.3
100	90.000	.33500	823.00	.6240-01	.4660-01	.7340-01	.9278	.2583-02	.4066-02	.3480	2.110	546.1
100	90.000	.34000	824.00	.6290-01	.4700-01	.7400-01	.9278	.2604-02	.4100-02	.3510	2 116	546.1
100	90.000	.34500	825.00	.6360-01	.4750-01	.7480-01	.9278	.2631-02	.4142-02	.3540	2.143	546.1
100	90.000	.35000	826.00	.6270-01	.4680-01	.7370-01	.9278	.2595-02	.4085-02	.3500	2.114	546.1
100	90.000	.36000	828.00	.6170-01	.4610-01	.7260-01	.9278	.2553-02	.4020 02	.3440	2.074	546.1
100	90.000	.37000	830.00	.5880-01	.4400-01	.6910-01	.9278	.2436-02	.3828-02	.3290	1.997	545.7
100	90.000	.37500	831.00	.6030-01	.4510-01	.7090-01	.9278	.2498-02	.3925-02	.3380	2.050	545.6
100	90.000	.38000	832.00	.5880-01	.4390-01	.6920-01	.9278	.2431-02	.3831-02	.3270	1.993	546.3
100	90.000	.39000	833.00	.6260-01	.4680-01	.7370-01	.9278	.2590-02	.4080-02	.3490	2.148	546.2
100	90.000	.40000	834.00	.6120-01	.4570-01	.7200-01	.9278	.2532-02	.3990-02	.3400	2.104	545.3
100	90.000	.50000	835.00	.6220-01	.4600-01	.7370-01	.9278	.2581-02	.4084-02	.3340	2 107	549.9
100	90.000	.60000	836.00	.6470-01	.4800-01	.7640-01	.9278	.2661-02	.4231-02	.3520	2.345	548.4
100	90.000	.70000	837.00	.5810-01	.4310-01	.6880-01	.9278	.2388-02	.3810-02	.3140	2.211	549.1
100	90.000	.80000	838.00	.5950-01	.4440-01	.7000-01	.9278	.2459-02	.3877 02	.3300	2.054	546.4
100	90.000	.90000	839.00	.4370-01	.3280-01	.5130-01	.9278	.1815-02	.2843-02	.2470	1 573	544.9
100	112.50	.23000	840.00	.6220-01	.4610-01	.7370-01	.9279	.2552-02	.4091-02	.3350	2.694	549.7
100	112.50	.25000	841.00	.5480-01	.2590-01	.4110-01	.9278	.1437-02	.2275-02	.1920	1.486	547.4
100	112.50	.27000	842.00	.5470-01	.2590-01	.4090-01	.9278	.1434-02	.2263-02	.1910	1.345	5 5.7
100	112.50	.30000	843.00	.6300-01	.4690-01	.7440-01	.9278	.2598-02	.4119-02	.3450	2 080	547.9
100	112.50	.33000	844.00	.6540-01	.4870-01	.7720-01	.9278	.2696-02	.4275-02	.3590	2.181	547.9
100	112.50	.34000	845.00	.6760-01	.5030-01	.7980-01	.9278	.2789-02	.4423-02	.3730	2.285	547.0
100	112.50	.35000	846.00	.6680-01	.4980-01	.7870-01	.9278	.2756-02	.4357-02	.3670	2.275	547.8
100	112.50	.36000	847.00	.5950-01	.4450-01	.7000-01	.9278	.2465-02	.3877-02	.3280	2.077	546.8
100	112.50	.45000	848.00	.6.60-01	.4910-01	.7730-01	.9279	.2711-02	.4291-02	.3630	2.30	546.6

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F14)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
100	112.50	.50000	849.00	.6080-01	.4510-01	.7190-01	.9278	.2497-02	.3981-02	.3290	2.114	549.0
100	112.50	.55000	850.00	.4770-01	.3550-01	.5630-01	.9278	.1965-02	.3117-02	.2610	1.745	547.3
100	112.50	.60000	851.00	.5910-01	.4400-01	.6970-01	.9278	.2436-02	.3863-02	.3240	2.171	547.7
100	112.50	.65000	852.00	.6160-01	.4580-01	.7270-01	.9278	.2539-02	.4029-02	.3370	2.295	547.9
100	112.50	.70000	853.00	.3610-01	.2680-01	.4270-01	.9278	.1483-02	.2366-02	.1950	1.369	549.1
100	112.50	.75000	854.00	.3320-01	.2490-01	.3900-01	.9278	.1378-02	.2159-02	.1870	1.216	544.9
100	112.50	.80000	855.00	.5070-01	.3790-01	.5960-01	.9278	.2100-02	.3301-02	.2840	1.846	545.7
100	112.50	.90000	856.00	.4490-01	.3370-01	.5270-01	.9278	.1867-02	.2920-02	.2540	1.652	544.5
100	125.40	.84000	857.00	.5750-01	.4310-01	.6750-01	.9278	.2389-02	.3738-02	.3250	2.013	544.5
100	125.40	.85000	858.00	.5600-01	.4200-01	.6580-01	.9278	.2324-02	.3645-02	.3150	1.961	545.1
100	125.40	.86000	859.00	.5660-01	.4240-01	.6660-01	.9278	.2349-02	.3686-02	.3180	1.996	545.3
100	125.40	.87000	860.00	.5610-01	.4200-01	.6590-01	.9278	.2325-02	.3650-02	.3150	1.980	545.4
100	125.40	.88000	861.00	.5870-01	.4390-01	.6900-01	.9278	.2433-02	.3823-02	.3290	2.068	545.6
100	125.40	.89000	862.00	.5970-01	.4470-01	.7020-01	.9278	.2475-02	.3887-02	.3350	2.119	545.4
100	125.40	.90000	863.00	.5320-01	.3990-01	.6250-01	.9278	.2209-02	.3461-02	.3000	1.911	544.9
100	125.40	.91000	864.00	.3430-01	.2590-01	.4000-01	.9278	.1434-02	.2217-02	.2000	1.455	541.6
100	125.40	.92600	865.00	.4030-01	.3000-01	.4750-01	.9278	.1663-02	.2630-02	.2220	1.610	547.1
100	129.30	.80000	866.00	.5240-01	.3930-01	.6150-01	.9278	.2177-02	.3406-02	.2960	1.865	544.6
100	129.30	.81000	867.00	.5610-01	.4210-01	.6590-01	.9278	.2330-02	.3649-02	.3170	1.981	544.9
100	129.30	.82000	868.00	.5910-01	.4440-01	.6920-01	.9278	.2459-02	.3835-02	.3370	2.109	543.8
100	129.30	.83000	869.00	.5780-01	.4340-01	.6770-01	.9278	.2404-02	.3751-02	.3290	2.065	544.0
100	135.00	.40000-01	870.00	.5113	.3507	.4564	.9631	.1942-01	.2528-01	2.105	13.36	572.4
100	135.00	.50000-01	871.00	.5164	.3567	.4756	.9596	.1976-01	.2634-01	2.175	13.74	570.7
100	135.00	.60000-01	872.00	.4635	.3055	.4355	.9562	.1692-01	.2412-01	1.690	11.03	580.9
100	135.00	.70000-01	873.00	.5541	.3406	.5337	.9531	.1887-01	.2956-01	1.667	11.09	592.4
100	135.00	.10000+00	875.00	.2872	.2020	.3006	.9447	.1119-01	.1665-01	1.285	8.350	566.0
100	135.00	.15000	876.00	.1689	.1198	.1934	.9346	.6635-02	.1071-01	.7760	5.632	563.8
100	135.00	.20000	877.00	.9680-01	.7090-01	.1142	.9291	.3930-02	.6323-02	.5010	3.368	553.2
100	135.00	.35000	878.00	.6550-01	.4390-01	.7730-01	.9278	.2708-02	.4284-02	.3620	2.249	547.2
100	135.00	.40000	879.00	.6440-01	.4800-01	.7590-01	.9278	.2658-02	.4203-02	.3550	2.252	547.1
100	135.00	.50000	880.00	.5590-01	.4150-01	.6610-01	.9278	.2296-02	.3662-02	.3030	2.075	549.0
100	135.00	.55000	881.00	.4630-01	.3450-01	.5460-01	.9278	.1911-02	.3027-02	.2550	1.697	547.5
100	135.00	.60000	882.00	.5940-01	.4420-01	.7010-01	.9278	.2447-02	.3881-02	.3250	2.186	547.8
280	135.00	.65000	883.00	.5590-01	.4020-01	.6760-01	.9278	.2221-02	.3732-02	.2680	1.822	556.1
280	135.00	.70000	884.00	.5680-01	.4060-01	.6890-01	.9278	.2243-02	.3808-02	.2670	1.884	552.9
280	135.00	.75000	885.00	.5070-01	.3630-01	.6150-01	.9278	.2007-02	.3397-02	.2400	1.502	557.4
280	135.00	.80000	886.00	.5640-01	.4070-01	.6800-01	.9278	.2248-02	.3758-02	.2730	1.7.1	555.2
280	135.00	.84000	887.00	.7590-01	.5980-01	.9460-01	.9130	.2678-02	.4234-02	.0000	.0000	244.7
280	135.00	.85000	888.00	.5260-01	.3790-01	.6350-01	.9278	.2093-02	.3510-02	.2530	1.599	555.9
280	135.00	.87000	890.00	.5760-01	.4140-01	.6970-01	.9278	.2287-02	.3949-02	.2750	1.742	556.6
280	135.00	.88000	891.00	.5630-01	.4020-01	.6840-01	.9278	.2223-02	.3778-02	.2640	1.678	558.3
280	135.00	.89000	892.00	.5330-01	.3810-01	.6490-01	.9278	.2102-02	.3583-02	.2490	1.608	558.7
280	135.00	.91000	894.00	.2500-01	.1790-01	.3040-01	.9278	.9900-03	.1680-02	.1160	.8550	558.0

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F14)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
280	135.00	.92600	895.00	.3510-01	.2500-01	.4280-01	.9278	.1378-02	.2366-02	.1610	1.166	559.9
280	135.00	.95000	896.00	.6510-01	.4620-01	.7950-01	.9278	.2551-02	.4391-02	.2970	2.134	560.4
280	142.30	.42000	897.00	.5950-01	.4300-01	.7190-01	.9278	.2373-02	.3971-02	.2880	1.845	555.6
280	142.30	.43500	898.00	.6050-01	.4380-01	.7290-01	.9278	.2421-02	.4024-02	.2970	1.850	554.3
280	142.30	.45000	899.00	.5800-01	.4190-01	.7000-01	.9278	.2315-02	.3866-02	.2820	1.837	555.2
280	142.30	.50000	900.00	.5900-01	.4230-01	.7160-01	.9278	.2339-02	.3954-02	.2800	1.854	557.4
280	142.30	.60000	901.00	.5490-01	.3970-01	.6620-01	.9278	.2191-02	.3657-02	.2670	1.767	555.1
280	142.30	.70000	902.00	.6180-01	.4440-01	.7490-01	.9278	.2452-02	.4137-02	.2940	1.997	557.0
280	142.30	.80000	903.00	.6090-01	.4390-01	.7350-01	.9278	.2424-02	.4061-02	.2940	1.960	555.8
280	142.30	.87000	904.00	.6510-01	.4660-01	.7910-01	.9278	.2575-02	.4370-02	.3060	1.926	558.0
280	154.98	.42000	905.00	.6060-01	.4370-01	.7310-01	.9278	.2412-02	.4039-02	.2930	1.879	555.7
280	154.98	.43500	906.00	.5620-01	.4050-01	.6780-01	.9278	.2240-02	.3752-02	.2720	1.754	555.8
280	154.98	.45000	907.00	.5850-01	.4220-01	.7070-01	.9278	.2332-02	.3905-02	.2830	1.937	555.7
280	154.98	.50000	908.00	.5150-01	.3690-01	.6250-01	.9278	.2036-02	.3454-02	.2420	1.724	558.0
280	154.98	.93000	913.00	.3670-01	.2590-01	.4500-01	.9278	.1431-02	.2483-02	.1650	1.191	561.7
280	154.98	.94500	914.00	.4920-01	.3470-01	.6050-01	.9278	.1915-02	.3343-02	.2190	1.565	562.6
280	167.50	.70000-01	918.00	.4982	.2756	.4757	.9530	.1522-01	.2628-01	1.151	7.784	601.5
280	167.50	.80000-01	919.00	.3600	.2324	.3597	.9501	.1284-01	.1987-01	1.226	7.223	581.5
280	167.50	.10000+00	920.00	.2520	.1714	.2652	.9447	.9467-02	.1455-01	1.002	6.611	571.2
280	167.50	.22000	922.00	.8630-01	.6310-01	.1061	.9291	.3485-02	.5852-02	.4130	2.732	558.6
280	167.50	.42000	923.00	.5560-01	.4010-01	.6710-01	.9278	.2218-02	.3708-02	.2700	1.752	555.4
280	167.50	.43500	924.00	.5680-01	.4110-01	.6840-01	.9278	.2272-02	.3778-02	.2790	1.916	554.4
280	167.50	.45000	925.00	.5530-01	.3980-01	.6630-01	.9278	.2199-02	.3660-02	.2690	1.771	554.6
280	167.50	.65000	926.00	.5340-01	.3830-01	.6470-01	.9278	.2116-02	.3572-02	.2540	1.633	557.1
280	167.50	.86000	927.00	.4980-01	.3570-01	.6030-01	.9278	.1972-02	.3332-02	.2360	1.523	557.3
280	167.50	.87000	928.00	.5220-01	.3750-01	.6340-01	.9278	.2072-02	.3503-02	.2480	1.604	557.4
280	167.50	.90000	929.00	.5100-01	.3650-01	.6200-01	.9278	.2014-02	.3405-02	.2390	1.554	558.4
280	167.50	.94000	930.00	.5300-01	.3840-01	.6490-01	.9278	.2110-02	.3643-02	.2480	1.680	560.1
280	167.50	.20000	932.00	.4460-01	.3180-01	.5430-01	.9278	.1758-02	.3002-02	.2070	1.386	559.2
280	167.50	.21000	933.00	.2550-01	.1820-01	.3110-01	.9278	.1004-02	.1716-02	.1180	.8590	558.4
280	167.50	.22000	934.00	.3750-01	.2640-01	.4560-01	.9278	.1468-02	.2511-02	.1700	1.232	560.4
280	167.50	.23000	935.00	.4010-01	.2870-01	.4850-01	.9278	.1598-02	.2735-02	.1810	2.010	562.5
280	167.50	.24000	936.00	.4810-01	.3430-01	.5810-01	.9278	.1906-02	.3258-02	.2160	2.155	564.1
280	167.50	.25000	937.00	.4610-01	.3290-01	.5570-01	.9278	.1826-02	.3123-02	.2050	1.903	563.0
280	167.50	.26000	938.00	.4710-01	.3360-01	.5700-01	.9278	.1874-02	.3209-02	.2100	1.756	559.3
280	167.50	.27000	939.00	.4830-01	.3440-01	.5840-01	.9278	.1922-02	.3288-02	.2150	1.882	559.2
280	167.50	.28000	940.00	.4610-01	.3290-01	.5570-01	.9278	.2161-02	.3701-02	.2430	1.740	555.3
280	167.50	.29000	941.00	.4580-01	.3270-01	.5540-01	.9278	.2240-02	.3833-02	.2510	1.811	557.2
280	167.50	.30000	942.00	.4550-01	.3250-01	.5490-01	.9278	.2184-02	.3736-02	.2460	1.749	557.5
280	167.50	.40000	943.00	.5410-01	.3860-01	.6570-01	.9278	.2120-02	.3598-02	.2540	1.647	557.5
280	167.50	.60000	944.00	.5370-01	.3830-01	.6510-01	.9278	.2428-02	.4041-02	.2700	1.887	556.8
280	167.50	.80000	945.00	.5090-01	.3630-01	.6170-01	.9278	.2344-02	.3905-02	.2610	1.845	552.9
280	167.50	.10000	946.00	.5830-01	.4120-01	.7000-01	.9278	.2277-02	.3780-02	.2800	1.[illegible]	554.1
280	167.50	.12000	948.00	.5620-01	.4120-01	.6940-01	.9278	.2277-02	.3780-02	.2800	1.[illegible]	554.1

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
280	168.00	.38500	950.00	.4780-01	.3480-01	.5720-01	.9278	.1925-02	.3158-02	.2410	1.550	551.8
280	168.00	.39000	951.00	.5790-01	.4200-01	.6950-01	.9278	.2320-02	.3842-02	.2860	1.851	553.6
280	168.00	.39500	952.00	.5760-01	.4180-01	.6920-01	.9278	.2309-02	.3824-02	.2850	1.814	553.7
280	168.00	.40000	953.00	.5690-01	.4120-01	.6850-01	.9278	.2278-02	.3785-02	.2800	1.812	554.3
280	168.00	.40500	954.00	.5650-01	.4090-01	.6800-01	.9278	.2258-02	.3758-02	.2770	1.798	554.5
280	168.00	.41000	955.00	.5870-01	.4250-01	.7070-01	.9278	.2348-02	.3908-02	.2880	1.869	554.6
280	168.00	.41500	956.00	.5980-01	.4330-01	.7200-01	.9278	.2389-02	.3975-02	.2930	1.908	554.5
280	168.00	.42000	957.00	.6130-01	.4440-01	.7370-01	.9278	.2453-02	.4078-02	.3020	1.973	554.0
280	168.00	.42500	958.00	.6120-01	.4430-01	.7360-01	.9278	.2448-02	.4064-02	.3010	1.967	554.1
280	168.00	.43000	959.00	.6650-01	.4820-01	.8000-01	.9278	.2664-02	.4420-02	.3260	2.137	554.0
280	168.00	.43500	960.00	.6290-01	.4570-01	.7570-01	.9278	.2523-02	.4180-02	.3110	2.034	553.7
280	168.00	.44000	961.00	.5720-01	.4130-01	.6900-01	.9278	.2288-02	.3811-02	.2770	1.812	555.4
280	168.00	.44500	962.00	.5500-01	.3970-01	.6630-01	.9278	.2192-02	.3663-02	.2670	1.754	555.3
280	168.00	.45000	963.00	.5530-01	.4000-01	.6720-01	.9278	.2212-02	.3709-02	.2680	1.770	556.0
280	168.00	.45500	964.00	.5560-01	.4000-01	.6690-01	.9278	.2202-02	.3694-02	.2670	1.768	556.0
280	168.00	.46000	965.00	.5530-01	.3990-01	.6690-01	.9278	.2238-02	.3767-02	.2700	1.803	556.6
280	168.00	.46500	966.00	.5640-01	.4050-01	.6820-01	.9278	.2183-02	.3680-02	.2650	1.772	554.6
280	168.00	.47000	967.00	.5410-01	.3910-01	.6520-01	.9278	.2159-02	.3656-02	.2580	1.663	557.6
280	168.00	.47500	968.00	.5460-01	.3910-01	.6620-01	.9278	.2032-02	.3458-02	.2410	1.557	558.5
280	168.00	.48000	969.00	.5160-01	.3680-01	.6260-01	.9278	.2091-02	.3550-02	.2460	1.594	558.9
280	168.00	.48500	970.00	.5280-01	.3770-01	.6430-01	.9278	.2161-02	.3719-02	.2520	1.639	560.3
280	168.00	.49000	971.00	.5510-01	.3910-01	.6730-01	.9278	.2084-02	.3611-02	.2410	1.588	561.4
280	168.00	.49500	972.00	.5310-01	.3770-01	.6540-01	.9278	.1699-02	.2917-02	.1930	1.345	559.9
280	168.00	.50000	973.00	.4330-01	.3080-01	.5280-01	.9278	.9897-03	.1693-02	.1160	.8440	559.3
280	168.00	.50500	974.00	.2530-01	.1790-01	.3050-01	.9278	.1309-02	.2278-02	.1500	1.082	562.1
280	168.00	.51000	975.00	.3360-01	.2370-01	.4120-01	.9278	.2294-02	.3998-02	.2630	1.879	562.3
280	168.00	.51500	976.00	.5610-01	.4150-01	.7240-01	.9279	.7000-02	.8525-02	.8360	5.781	557.6
280	168.00	.52000	977.00	.1708	.1267	.1543	.9684	.1532-01	.1962-01	1.593	10.87	572.0
280	168.00	.52500	978.00	.4114	.2774	.3552	.9684	.2266-01	.3104-01	2.008	13.50	588.4
280	168.00	.53000	979.00	.6638	.4102	.5620	.9647	.1946-01	.2540-01	2.090	13.25	574.7
280	168.00	.53500	980.00	.5147	.3513	.4586	.9632	.1925-01	.2570-01	2.116	13.47	572.2
280	168.00	.54000	981.00	.5039	.3476	.4638	.9596	.1777-01	.2543-01	1.760	11.51	583.0
280	168.00	.54500	982.00	.4693	.3208	.4591	.9563	.1912-01	.3009-01	1.678	11.18	594.3
280	168.00	.55000	983.00	.5644	.3451	.5431	.9531	.1445-01	.2125-01	1.538	9.661	575.7
280	168.00	.55500	984.00	.3840	.2609	.3836	.9501	.1009-01	.1516-01	1.138	8.072	569.3
280	168.00	.56000	985.00	.2611	.1821	.2736	.9447	.6185-02	.9930-02	.7320	5.274	563.8
98	180.00	.15000	606.00	.1569	.1117	.1793	.9346	.3877-02	.6201-02	.5010	3.256	553.0
98	180.00	.20000	607.00	.9510-01	.7000-01	.1119	.9291	.3316-02	.5284-02	.4340	2.994	551.1
98	180.00	.21000	608.00	.8090-01	.5990-01	.9540-01	.9285	.2745-02	.4382-02	.3600	2.675	550.8
98	180.00	.22000	609.00	.6690-01	.4960-01	.7910-01	.9281	.1976-02	.3129-02	.2640	1.806	548.5
98	180.00	.30000	610.00	.4790-01	.3570-01	.5650-01	.9278	.2362-02	.3720-02	.3190	2.122	547.2
98	180.00	.35000	611.00	.5710-01	.4260-01	.6710-01	.9278	.2297-02	.3611-02	.3110	2.089	546.8
98	180.00	.36000	612.00	.5540-01	.4150-01	.6520-01	.9278	.2276-02	.3583-02	.3070	2.065	547.1
98	180.00	.37000	613.00	.5500-01	.4110-01	.6470-01	.9279					

ORIGINAL PAGE IS
OF POOR QUALITY

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F14)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
98	180.00	.37500	614.00	.5540-01	.4140-01	.6520-01	.9278	.2295-02	.3612-02	.3100	2.083	547.0
98	180.00	.38000	615.00	.5410-01	.4790-01	.7540-01	.9278	.2656-02	.4175-02	.3600	2.417	546.7
98	180.00	.38500	616.00	.6230-01	.4360-01	.7320-01	.9278	.2581-02	.4053-02	.3500	2.352	546.5
98	180.00	.39000	617.00	.5800-01	.4350-01	.6820-01	.9278	.2407-02	.3778-02	.3270	2.189	546.4
98	180.00	.39500	618.00	.5140-01	.3840-01	.6040-01	.9278	.2129-02	.3347-02	.2880	1.942	546.8
98	180.00	.40000	619.00	.5290-01	.3960-01	.6220-01	.9278	.2196-02	.3446-02	.2980	1.999	546.3
98	180.00	.40500	620.00	.5680-01	.4250-01	.6670-01	.9278	.2354-02	.3696-02	.3190	2.147	546.4
98	180.00	.41000	621.00	.6130-01	.4590-01	.7210-01	.9278	.2541-02	.3992-02	.3440	2.314	546.6
98	180.00	.41500	622.00	.6200-01	.4640-01	.7290-01	.9278	.2570-02	.4039-02	.3480	2.333	546.7
98	180.00	.42000	624.00	.5620-01	.4190-01	.6630-01	.9278	.2320-02	.3673-02	.3100	2.077	548.3
98	180.00	.42500	625.00	.5650-01	.4210-01	.6660-01	.9278	.2330-02	.3692-02	.3110	2.088	548.6
98	180.00	.43000	626.00	.5630-01	.4200-01	.5630-01	.9278	.2324-02	.3675-02	.3110	2.091	548.1
98	180.00	.44000	627.00	.5550-01	.4130-01	.6540-01	.9278	.2290-02	.3621-02	.3070	2.079	548.1
98	180.00	.44500	628.00	.5320-01	.3970-01	.6280-01	.9278	.2198-02	.3478-02	.2940	1.993	548.3
98	180.00	.45000	629.00	.5310-01	.3960-01	.6250-01	.9278	.2193-02	.3463-02	.2940	2.026	547.8
98	180.00	.45500	630.00	.5500-01	.4100-01	.6480-01	.9278	.2273-02	.3588-02	.3050	2.051	547.7
98	180.00	.46000	630.00	.5350-01	.4010-01	.6350-01	.9278	.2221-02	.3517-02	.2970	1.992	548.5
98	180.00	.47000	631.00	.5280-01	.3920-01	.6230-01	.9278	.2174-02	.3450-02	.2890	1.973	548.9
98	180.00	.48000	633.00	.4900-01	.3650-01	.5780-01	.9278	.2023-02	.3201-02	.2710	1.893	548.2
98	180.00	.50000	634.00	.4420-01	.3300-01	.5210-01	.9278	.1825-02	.2887-02	.2440	1.622	548.2
98	180.00	.55000	635.00	.5960-01	.4440-01	.7020-01	.9278	.2462-02	.3886-02	.3310	2.132	547.7
98	180.00	.60000	636.00	.5830-01	.4350-01	.6870-01	.9278	.2411-02	.3808-02	.3240	2.091	547.9
98	180.00	.65000	637.00	.5530-01	.4160-01	.6600-01	.9278	.2303-02	.3654-02	.3070	2.099	548.8
98	180.00	.70000	638.00	.5390-01	.4030-01	.6330-01	.9278	.2232-02	.3509-02	.3020	1.949	546.7
98	180.00	.75000	639.00	.5810-01	.4340-01	.6800-01	.9278	.2406-02	.3770-02	.3280	2.055	545.9
98	180.00	.80000	640.00	.5960-01	.4460-01	.7000-01	.9278	.2469-02	.3880-02	.3340	2.114	546.6
98	180.00	.85000	641.00	.5930-01	.4440-01	.6990-01	.9278	.2461-02	.3874-02	.3320	2.130	547.0
98	180.00	.87500	642.00	.5620-01	.4110-01	.6510-01	.9278	.2278-02	.3608-02	.3050	1.962	548.4
98	180.00	.90000	643.00	.5540-01	.4120-01	.6550-01	.9278	.2284-02	.3626-02	.3040	1.975	549.0
98	180.00	.92500	644.00	.5650-01	.4140-01	.6660-01	.9278	.2293-02	.3631-02	.3060	2.014	548.5
98	180.00	.95000	645.00	.4290-01	.3150-01	.4950-01	.9278	.1746-02	.2740-02	.2370	1.593	546.3
98	180.00	.97500	646.00	.3570-01	.2660-01	.4220-01	.9278	.1471-02	.2336-02	.1960	1.426	548.0
98	180.00	.98750	646.00	.5450-01	.4030-01	.6460-01	.9278	.2231-02	.3581-02	.2910	2.101	551.4
98	180.00	.99375	646.00	.5370-01	.4000-01	.6380-01	.9278	.2547-02	.4032-02	.3410	2.387	548.3
98	180.00	1.00000	646.00	.5410-01	.4160-01	.6600-01	.9278	.2317-02	.3659-02	.3110	2.235	547.8
98	180.00	1.00625	646.00	.5540-01	.4280-01	.7060-01	.9278	.2460-02	.3912-02	.3340	2.242	547.6
98	180.00	1.01250	646.00	.5410-01	.4210-01	.6960-01	.9278	.2442-02	.3853-02	.3280	2.212	547.5
98	180.00	1.02500	646.00	.5210-01	.4010-01	.6670-01	.9278	.2358-02	.3767-02	.3220	2.172	547.1
98	180.00	1.05000	646.00	.5140-01	.4000-01	.6750-01	.9278	.2379-02	.3743-02	.3200	2.157	547.3
98	180.00	1.07500	646.00	.5140-01	.4000-01	.6810-01	.9278	.2397-02	.3770-02	.3220	2.170	547.4
98	180.00	1.10000	646.00	.4760-01	.3690-01	.6310-01	.9278	.2180-02	.2151-02	.1820	1.229	548.0
98	180.00	1.12500	646.00	.4380-01	.3400-01	.4800-01	.9278	.1686-02	.2659-02	.2270	1.531	547.6
98	180.00	1.15000	646.00	.4280-01	.3320-01	.5130-01	.9278	.1900-02	.3001-02	.2550	1.723	547.9

(RV7F14)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
98	191.25	.41000	660.00	.5880-01	.4390-01	.6920-01	.9278	.2431-02	.3833-02	.3270	2.207	547.4
98	191.25	.41500	661.00	.5860-01	.4380-01	.6900-01	.9278	.2428-02	.3821-02	.3280	2.203	547.0
98	191.25	.42000	662.00	.5750-01	.4290-01	.6780-01	.9278	.2374-02	.3755-02	.3180	2.141	548.2
98	191.25	.42500	663.00	.5740-01	.4280-01	.6770-01	.9278	.2374-02	.3749-02	.3190	2.153	547.8
98	191.25	.43000	664.00	.5670-01	.4230-01	.6680-01	.9278	.2342-02	.3703-02	.3140	2.140	548.1
98	191.25	.44000	665.00	.5540-01	.4130-01	.6530-01	.9278	.2286-02	.3616-02	.3060	2.075	548.2
98	191.25	.45000	666.00	.5820-01	.4340-01	.6860-01	.9278	.2403-02	.3799-02	.3220	2.182	548.1
98	191.25	.45500	667.00	.5580-01	.4160-01	.6590-01	.9278	.2306-02	.3645-02	.3090	2.094	548.1
98	191.25	.46000	668.00	.5470-01	.4080-01	.6450-01	.9278	.2261-02	.3571-02	.3040	2.064	547.8
98	191.25	.46500	669.00	.5700-01	.4250-01	.6710-01	.9278	.2355-02	.3717-02	.3160	2.159	547.7
98	191.25	.48000	670.00	.5550-01	.4150-01	.6540-01	.9278	.2297-02	.3623-02	.3090	2.109	547.5
98	191.25	.49000	671.00	.5620-01	.4180-01	.6640-01	.9278	.2318-02	.3678-02	.3090	2.099	548.6
98	191.25	.50000	672.00	.5130-01	.3820-01	.6050-01	.9278	.2116-02	.3349-02	.2830	1.965	548.3
98	191.25	.50500	673.00	.5670-01	.4230-01	.6680-01	.9278	.2343-02	.3701-02	.3150	2.016	547.8
98	191.25	.51000	674.00	.5930-01	.4400-01	.7020-01	.9278	.2439-02	.3888-02	.3220	2.189	549.9
98	191.25	.52000	675.00	.5240-01	.3920-01	.6180-01	.9278	.2169-02	.3412-02	.2930	1.853	546.9
98	191.25	.53000	676.00	.5390-01	.3970-01	.6260-01	.9278	.2200-02	.3470-02	.2980	1.891	547.6
98	191.25	.54000	677.00	.5600-01	.4180-01	.6600-01	.9278	.2316-02	.3655-02	.3110	2.006	547.7
98	191.25	.54500	678.00	.5470-01	.4070-01	.6460-01	.9278	.2255-02	.3577-02	.3010	1.960	548.8
98	191.25	.55000	679.00	.5460-01	.4060-01	.6450-01	.9278	.2249-02	.3574-02	.2990	1.975	549.3
98	191.25	.56000	680.00	.4310-01	.3210-01	.5090-01	.9278	.1778-02	.2818-02	.2370	1.597	548.7
98	191.25	.57000	681.00	.2310-01	.1730-01	.2710-01	.9278	.9532 03	.1503-02	.1310	.9530	546.0
98	191.25	.58000	682.00	.3410-01	.2550-01	.4040-01	.9278	.1402-02	.2235-02	.1850	1.354	549.9
98	191.25	.59000	683.00	.4820-01	.3620-01	.5760-01	.9278	.1951-02	.3190-02	.2470	1.780	555.2
98	191.25	.60000	684.00	.5960-01	.4440-01	.7020-01	.9278	.2459-02	.3890-02	.3290	2.211	548.2
98	191.25	.61000	685.00	.5830-01	.4350-01	.6870-01	.9278	.2408-02	.3807-02	.3230	2.167	548.1
98	191.25	.62000	686.00	.6100-01	.4550-01	.7180-01	.9278	.2523-02	.3979-02	.3400	2.281	547.5
98	191.25	.63000	687.00	.6200-01	.4620-01	.7290-01	.9278	.2562-02	.4041-02	.3450	2.316	547.5
98	191.25	.64000	688.00	.6230-01	.4690-01	.7400-01	.9278	.2600-02	.4099-02	.3500	2.353	547.4
98	191.25	.65000	689.00	.6630-01	.4930-01	.7770-01	.9278	.2731-02	.4305-02	.3680	2.479	547.4
98	191.25	.67000	690.00	.5590-01	.4160-01	.6600-01	.9278	.2304-02	.3655 02	.3070	2.061	548.8
98	191.25	.68000	691.00	.5660-01	.4230-01	.6670-01	.9278	.2342-02	.3696 02	.3150	2.030	547.6
98	191.25	.69000	692.00	.5390-01	.4020-01	.6360-01	.9278	.2227-02	.3522-02	.2980	2.023	548.1
98	191.25	.70000	693.00	.5720-01	.4300-01	.6720-01	.9278	.2380-02	.3720-02	.3250	2.046	545.4
98	191.25	.80000	694.00	.6140-01	.4590-01	.7220-01	.9278	.2541-02	.3998-02	.3430	2.187	547.0
98	197.00	.87000	695.00	.3350-01	.2490-01	.3960-01	.9278	.1381-02	.2191-02	.1840	1.344	548.9
98	197.00	.92600	696.00	.1180	.8700-01	.1401	.9278	.4819-02	.7761-02	.6260	4.286	552.2
98	209.80	.15000-01	697.00									

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = .0000 BETA = .0000 GRIT = 3.000 RN/L = 5.000

•••TEST CONDITIONS•••

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
81	4.520	5.042	.1000-01	.0000	.0000	97.10	.3270	666.0	131.0	4.682	2535.	.2097-03
82	4.520	5.051	.1000-01	.0000	.0000	97.30	.3280	666.0	131.0	4.691	2535.	.2101-03
83	4.520	5.047	.1000-01	.0000	.0000	97.30	.3280	666.0	131.0	4.688	2535.	.2100-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
81	.1054-06	.4741-01	.1141-01
82	.1054-06	.4745-01	.1140-01
83	.1055-06	.4744-01	.1141-01

•••TEST DATA•••

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
82	.00000	.30000-02	730.00	.4514	.3055	.3910	.9662	.1450-01	.1855-01	1.494	10.17	563.1
82	.00000	.10300-01	731.00	.1228	.8890-01	.1620	.9183	.4219-02	.7687-02	.5090	3.508	545.5
82	.00000	.18000-01	732.00	.6310-01	.4560-01	.8350-01	.9183	.2162-02	.3964-02	.2590	1.762	546.4
82	.00000	.26000-01	733.00	.4390-01	.3110-01	.3970-01	.9626	.1475-02	.1886-02	.1690	1.155	551.8
82	.00000	.34000-01	734.00	.2098	.1429	.1909	.9605	.6783-02	.9060-02	.7090	4.789	561.6
82	.00000	.42000-01	735.00	.5558	.3572	.5060	.9588	.1635-01	.2401-01	1.580	10.67	572.9
82	.00000	.50000-01	736.00	.4932	.3051	.4614	.0573	.1539-01	.2189-01	1.652	10.89	562.2
82	.00000	.58000-01	737.00	.4932	.3051	.4614	.0573	.1627-01	.2272-01	1.597	11.15	561.8
82	.00000	.66000-01	738.00	.5026	.3428	.4788	.9555	.1161-01	.1715-01	1.189	7.923	563.7
82	.00000	.74000-01	739.00	.3626	.2447	.3614	.9504	.1131-01	.1741-01	1.138	7.625	565.5
82	.00000	.82000-01	740.00	.3553	.2384	.3669	.9471	.8620-02	.1316-01	.9320	6.736	558.0
82	.00000	.90000-01	741.00	.2626	.1817	.2773	.9440	.7583-02	.1186-01	.8640	5.757	552.2
82	.00000	.98000-01	742.00	.2259	.1598	.2499	.9383	.6297-02	.8977-02	.5940	4.300	554.1
82	.00000	.10600	743.00	.1589	.1116	.1871	.9322	.4229-02	.7198-02	.4980	3.460	548.3
82	.00000	.11400	744.00	.1243	.8910-01	.1517	.9271	.2807-02	.4813-02	.3440	2.594	543.4
82	.00000	.12200	745.00	.9120-01	.6520-01	.1016	.9231	.1895-02	.3285-02	.2390	1.708	540.5
82	.00000	.13000	746.00	.6440-01	.4600-01	.6320-01	.9202	.1572-02	.2733-02	.1930	1.387	539.3
82	.00000	.21000	747.00	.4490-01	.3310-01	.5760-01	.9191	.1271-02	.2230-02	.1600	1.190	539.3
82	.00000	.29000	748.00	.3640-01	.2680-01	.4700-01	.9184					

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F14)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
82	.00000	.24000	749.00	.2720-01	.2000-01	.3530-01	.9183	.9501-03	.1676-02	.1190	.9030	540.5
82	.00000	.25000	750.00	.1580-01	.1160-01	.2040-01	.9183	.5508-03	.9696-03	.6900-01	.5630	540.1
82	.00000	.30000	751.00	.4160-01	.3050-01	.5400-01	.9183	.1448-02	.2560-02	.1810	1.195	540.8
82	.00000	.35000	752.00	.4030-01	.2980-01	.5190-01	.9183	.1415-02	.2461-02	.1810	1.150	538.1
82	.00000	.40000	753.00	.3950-01	.2920-01	.5080-01	.9183	.1385-02	.2412-02	.1770	1.143	538.3
82	.00000	.50000	754.00	.3780-01	.2770-01	.4900-01	.9183	.1316-02	.2325-02	.1650	1.082	540.8
82	.00000	.90000	758.00	.1400-01	.1040-01	.1800-01	.9183	.4920-03	.8557-03	.6300-01	.4090	538.1
82	55.000	.22000	759.00	.3940-01	.2920-01	.5030-01	.9188	.1387-02	.2387-02	.1790	1.338	537.1
82	55.000	.25000	760.00	.1720-01	.1270-01	.2220-01	.9183	.6030-03	.1052-02	.7700-01	.6050	538.7
82	55.000	.27000	761.00	.2290-01	.1680-01	.2980-01	.9183	.7993-03	.1412-02	.1000+00	.7480	540.7
82	55.000	.30000	762.00	.4330-01	.3200-01	.5580-01	.9183	.1519-02	.2646-02	.1940	1.173	538.3
82	55.000	.32000	763.00	.4640-01	.3450-01	.5950-01	.9183	.1635-02	.2821-02	.2120	1.259	536.6
82	55.000	.34000	764.00	.4640-01	.3450-01	.5940-01	.9183	.1638-02	.2819-02	.2130	1.270	536.2
82	55.000	.36000	765.00	.4110-01	.3060-01	.5240-01	.9183	.1451-02	.2488-02	.1890	1.145	535.6
82	55.000	.38000	766.00	.4000-01	.2980-01	.5110-01	.9183	.1414-02	.2427-02	.1840	1.127	535.7
82	55.000	.40000	767.00	.4000-01	.2980-01	.5100-01	.9183	.1415-02	.2421-02	.1850	1.164	535.2
82	67.500	.23000	768.00	.3760-01	.2790-01	.4820-01	.9184	.1325-02	.2288-02	.1710	1.280	537.0
82	67.500	.25000	769.00	.1510-01	.1120-01	.1940-01	.9183	.5299-03	.9222-03	.6800-01	.5300	538.2
82	67.500	.27000	770.00	.2780-01	.2040-01	.3600-01	.9183	.9681-03	.1708-02	.1220	.8900	540.5
82	67.500	.29000	771.00	.3000-01	.2210-01	.3870-01	.9183	.1049-02	.1838-02	.1330	.8260	539.4
82	67.500	.31000	772.00	.4220-01	.3120-01	.5440-01	.9183	.1478-02	.2580-02	.1880	1.156	538.7
82	67.500	.31000	773.00	.4280-01	.3170-01	.5500-01	.9183	.1504-02	.2611-02	.1930	1.175	537.8
82	67.500	.33000	774.00	.4180-01	.3100-01	.5350-01	.9183	.1472-02	.2539-02	.1910	1.153	536.5
82	67.500	.35000	775.00	.4080-01	.3030-01	.5220-01	.9183	.1439-02	.2475-02	.1870	1.135	536.0
82	67.500	.37000	776.00	.4400-01	.3270-01	.5630-01	.9183	.1552-02	.2669-02	.2020	1.226	536.1
82	67.500	.38000	777.00	.4640-01	.3460-01	.5940-01	.9183	.1641-02	.2816-02	.2140	1.301	535.7
82	67.500	.39000	778.00	.4660-01	.3460-01	.5950-01	.9183	.1643-02	.2823-02	.2140	1.301	535.9
82	67.500	.39500	779.00	.4690-01	.3490-01	.6000-01	.9183	.1656-02	.2846-02	.2150	1.313	536.0
82	67.500	.40000	780.00	.4350-01	.3240-01	.5560-01	.9183	.1538-02	.2637-02	.2010	1.228	535.6
82	67.500	.41000	781.00	.4470-01	.3330-01	.5710-01	.9183	.1578-02	.2707-02	.2060	1.263	535.6
82	67.500	.42000	782.00	.4280-01	.3190-01	.5470-01	.9183	.1513-02	.2596-02	.1970	1.209	535.7
82	67.500	.43000	783.00	.4170-01	.3110-01	.5330-01	.9183	.1476-02	.2529-02	.1930	1.180	535.4
82	67.500	.37000	784.00	.3910-01	.2910-01	.4990-01	.9183	.1382-02	.2366-02	.1810	1.111	535.3
82	67.500	.37000	785.00	.4350-01	.3240-01	.5560-01	.9183	.1539-02	.2636-02	.2010	1.247	535.4
82	67.500	.39000	786.00	.4040-01	.3010-01	.5160-01	.9183	.1428-02	.2447-02	.1870	1.160	535.4
82	67.500	.39000	787.00	.4380-01	.3260-01	.5600-01	.9183	.1546-02	.2655-02	.2010	1.254	535.9
82	67.500	.40000	788.00	.3950-01	.2930-01	.5050-01	.9183	.1392-02	.2397-02	.1810	1.136	536.3
82	67.500	.50000	789.00	.3750-01	.2770-01	.4840-01	.9183	.1316-02	.2297-02	.1680	1.080	538.7
82	67.500	.60000	790.00	.3990-01	.2980-01	.5090-01	.9183	.1415-02	.2414-02	.1860	1.229	534.6
83	67.500	.70000	791.00	.2920-01	.2160-01	.3750-01	.9183	.1026-02	.1778-02	.1320	.9470	537.4
83	67.500	.90000	792.00	.4010-01	.3020-01	.5060-01	.9183	.1431-02	.2401-02	.1930	1.221	531.4
83	67.500	.90000	793.00	.2520-01	.1850-01	.3250-01	.9185	.8767-03	.1542-02	.1100	.7110	537.6
83	78.000	.27000	794.00	.3160-01	.2280-01	.4160-01	.9184	.1082-02	.1972-02	.1300	.9280	542.9

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F14)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TH DEG. R
83	78.000	.29000	795.00	.1720-01	.1250-01	.2250-01	.9184	.5910-03	.1068-02	.7200-01	.4420	541.8
83	78.000	.30000	796.00	.4530-01	.3370-01	.5800-01	.9183	.1597-02	.2751-02	.2070	1.263	536.4
83	78.000	.31000	797.00	.4420-01	.3300-01	.5650-01	.9183	.1563-02	.2680-02	.2040	1.245	535.6
83	78.000	.32000	798.00	.4330-01	.3230-01	.5520-01	.9183	.1533-02	.2619-02	.2010	1.221	534.9
83	78.000	.32500	799.00	.4310-01	.3220-01	.5490-01	.9183	.1527-02	.2606-02	.2010	1.221	534.7
83	78.000	.33000	800.00	.4210-01	.3140-01	.5360-01	.9183	.1492-02	.2542-02	.1970	1.196	534.4
83	78.000	.33500	801.00	.4500-01	.3360-01	.5730-01	.9183	.1595-02	.2720-02	.2100	1.276	534.6
83	78.000	.34000	802.00	.4250-01	.3180-01	.5400-01	.9183	.1508-02	.2562-02	.1990	1.213	534.0
83	78.000	.34500	803.00	.4290-01	.3210-01	.5460-01	.9183	.1522-02	.2588-02	.2010	1.223	534.0
83	78.000	.35000	804.00	.4180-01	.3130-01	.5320-01	.9183	.1485-02	.2523-02	.1970	1.199	533.9
83	78.000	.35500	805.00	.4500-01	.3360-01	.5710-01	.9183	.1596-02	.2710-02	.2110	1.290	533.8
83	78.000	.36500	807.00	.4380-01	.3270-01	.5560-01	.9183	.1554-02	.2639-02	.2060	1.261	533.9
83	78.000	.37000	808.00	.4000-01	.3000-01	.5080-01	.9183	.1421-02	.2410-02	.1880	1.159	533.6
83	78.000	.37500	809.00	.4340-01	.3250-01	.5520-01	.9183	.1542-02	.2619-02	.2040	1.256	533.8
83	78.000	.38000	810.00	.4030-01	.3020-01	.5120-01	.9183	.1431-02	.2428-02	.1900	1.173	533.7
83	78.000	.39000	811.00	.3650-01	.2730-01	.4640-01	.9183	.1295-02	.2202-02	.1710	1.061	534.1
83	78.000	.40000	812.00	.3770-01	.2820-01	.4790-01	.9183	.1340-02	.2272-02	.1780	1.103	533.5
83	90.000	.20000	813.00	.3600-01	.2680-01	.4590-01	.9184	.1273-02	.2177-02	.1670	1.218	535.4
83	90.000	.24000	814.00	.2850-01	.2120-01	.3650-01	.9183	.1007-02	.1734-02	.1310	1.064	536.3
83	90.000	.27000	816.00	.2710-01	.2010-01	.3480-01	.9183	.9517-03	.1650-02	.1220	.8740	537.6
83	90.000	.29000	817.00	.3190-01	.2370-01	.4090-01	.9183	.1123-02	.1940-02	.1450	.9060	537.0
83	90.000	.30000	818.00	.4360-01	.3240-01	.5580-01	.9183	.1536-02	.2648-02	.1990	1.223	536.6
83	90.000	.31000	819.00	.4410-01	.3280-01	.5630-01	.9183	.1557-02	.2670-02	.2030	1.239	535.7
83	90.000	.32000	820.00	.4570-01	.3410-01	.5830-01	.9183	.1618-02	.2766-02	.2120	1.290	535.1
83	90.000	.32500	821.00	.4380-01	.3270-01	.5570-01	.9183	.1552-02	.2643-02	.2050	1.242	534.3
83	90.000	.33000	822.00	.4730-01	.3540-01	.6010-01	.9183	.1678-02	.2853-02	.2220	1.350	534.0
83	90.000	.33500	823.00	.4560-01	.3420-01	.5800-01	.9183	.1620-02	.2750-02	.2150	1.309	533.8
83	90.000	.34000	824.00	.4630-01	.3470-01	.5880-01	.9183	.1644-02	.2789-02	.2180	1.322	533.7
83	90.000	.34500	825.00	.4780-01	.3580-01	.6070-01	.9183	.1696-02	.2878-02	.2250	1.368	533.7
83	90.000	.35000	826.00	.4520-01	.3380-01	.5740-01	.9183	.1604-02	.2722-02	.2130	1.295	533.6
83	90.000	.36000	828.00	.4010-01	.3000-01	.5090-01	.9183	.1423-02	.2413-02	.1890	1.145	533.6
83	90.000	.37000	830.00	.4390-01	.3280-01	.5570-01	.9183	.1561-02	.2641-02	.2080	1.267	533.2
83	90.000	.37500	831.00	.4440-01	.3330-01	.5630-01	.9183	.1579-02	.2670-02	.2100	1.291	533.0
83	90.000	.38000	832.00	.4130-01	.3100-01	.5250-01	.9183	.1468-02	.2489-02	.1950	1.196	533.5
83	90.000	.39000	833.00	.3660-01	.2750-01	.4650-01	.9183	.1302-02	.2204-02	.1730	1.076	533.1
83	90.000	.40000	834.00	.4090-01	.3060-01	.5190-01	.9183	.1452-02	.2462-02	.1930	1.199	533.5
83	90.000	.50000	835.00	.4390-01	.3260-01	.5630-01	.9183	.1547-02	.2673-02	.2000	1.269	537.0
83	90.000	.60000	836.00	.3840-01	.2880-01	.4860-01	.9183	.1309-02	.2308-02	.1830	1.228	532.5
83	90.000	.70000	837.00	.3430-01	.2570-01	.4370-01	.9183	.1217-02	.2075-02	.1600	1.135	534.6
83	90.000	.80000	838.00	.3410-01	.2570-01	.4300-01	.9183	.1219-02	.2042-02	.1650	1.032	531.1
83	90.000	.90000	839.00	.2410-01	.1800-01	.3030-01	.9183	.8554-03	.1439-02	.1150	.7390	532.0
83	112.50	.23000	840.00	.3750-0	.2800-01	.4750-01	.9184	.1327-02	.2271-02	.1730	1.405	535.5
83	112.50	.25000	841.00	.3520-0	.2630-01	.4450-01	.9183	.5380-03	.9249-03	.7000-01	.5460	536.1

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F14)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
83	112.50	.27000	842.00	.1780-01	.1320-01	.2280-01	.9183	.6258-03	.1083-02	.8100-01	.5670	537.2
83	112.50	.30000	843.00	.4640-01	.3450-01	.5940-01	.9183	.1637-02	.2820-02	.2120	1.270	536.5
83	112.50	.33000	844.00	.4020-01	.3010-01	.5110-01	.9183	.1426-02	.2422-02	.1890	1.145	533.9
83	112.50	.35000	845.00	.4490-01	.3360-01	.5710-01	.9183	.1596-02	.2706-02	.2120	1.306	533.6
83	112.50	.37000	846.00	.4500-01	.3370-01	.5710-01	.9183	.1599-02	.2710-02	.2120	1.316	533.5
83	112.50	.40000	847.00	.4350-01	.3260-01	.5510-01	.9183	.1547-02	.2615-02	.2060	1.294	532.9
83	112.50	.45000	848.00	.4590-01	.3440-01	.5830-01	.9183	.1631-02	.2764-02	.2170	1.370	533.4
83	112.50	.50000	849.00	.4040-01	.3010-01	.5170-01	.9183	.1425-02	.2453-02	.1850	1.197	536.3
83	112.50	.55000	850.00	.3320-01	.2480-01	.4240-01	.9183	.1175-02	.2011-02	.1540	1.033	535.4
83	112.50	.60000	851.00	.4020-01	.3020-01	.5100-01	.9183	.1433-02	.2417-02	.1910	1.292	532.6
83	112.50	.65000	852.00	.4160-01	.3120-01	.5260-01	.9183	.1481-02	.2495-02	.1980	1.350	532.2
83	112.50	.70000	853.00	.3750-01	.2800-01	.4780-01	.9183	.1327-02	.2266-02	.1740	1.230	534.9
83	112.50	.75000	854.00	.2710-01	.2030-01	.3440-01	.9183	.9641-03	.1634-02	.1280	.8350	533.4
83	112.50	.80000	855.00	.3550-01	.2680-01	.4480-01	.9183	.1271-02	.2125-02	.1720	1.128	530.8
83	112.50	.90000	856.00	.2370-01	.1790-01	.3000-01	.9183	.8475-03	.1423-02	.1140	.7450	531.7
83	125.40	.84000	857.00	.3570-01	.2700-01	.4480-01	.9183	.1283-02	.2125-02	.1760	1.098	528.9
83	125.40	.85000	858.00	.3690-01	.2790-01	.4640-01	.9183	.1323-02	.2200-02	.1810	1.132	529.7
83	125.40	.86000	859.00	.3560-01	.2690-01	.4480-01	.9183	.1277-02	.2127-02	.1740	1.099	530.0
83	125.40	.87000	860.00	.3430-01	.2590-01	.4330-01	.9183	.1230-02	.2052-02	.1670	1.059	530.3
83	125.40	.88000	861.00	.3540-01	.2660-01	.4460-01	.9183	.1264-02	.2117-02	.1710	1.082	531.1
83	125.40	.89000	862.00	.4030-01	.3030-01	.5090-01	.9183	.1438-02	.2416-02	.1930	1.231	531.8
83	125.40	.90000	863.00	.3350-01	.2520-01	.4230-01	.9183	.1197-02	.2008-02	.1610	1.034	531.4
83	125.40	.91000	864.00	.1860-01	.1400-01	.2340-01	.9183	.6665-03	.1110-02	.9100-01	.6660	530.0
83	125.40	.92600	865.00	.2170-01	.1630-01	.2750-01	.9183	.7710-03	.1305-02	.1030	.7490	533.2
83	129.30	.80000	866.00	.3680-01	.2780-01	.4630-01	.9183	.1317-02	.2195-02	.1790	1.136	530.1
83	129.30	.81000	867.00	.3130-01	.2370-01	.3920-01	.9183	.1123-02	.1862-02	.1540	.9720	528.9
83	129.30	.82000	868.00	.3430-01	.2600-01	.4290-01	.9183	.1233-02	.2037-02	.1700	1.073	528.2
83	129.30	.83000	869.00	.3450-01	.2610-01	.4330-01	.9183	.1239-02	.2052-02	.1700	1.077	528.8
83	135.00	.40000-01	870.00	.5022	.3501	.4723	.9573	.1661-01	.2240-01	1.826	11.60	556.2
83	135.00	.50000-01	871.00	.4757	.3356	.4613	.9537	.1592-01	.2188-01	1.800	11.47	553.1
83	135.00	.60000-01	872.00	.4218	.2896	.4206	.9503	.1374-01	.1995-01	1.459	9.625	560.0
83	135.00	.70000-01	873.00	.4498	.2982	.4636	.9471	.1415-01	.2199-01	1.398	9.416	567.3
83	135.00	.10000+00	875.00	.2341	.1689	.2574	.9383	.8010-02	.1221-01	.9570	6.281	546.7
83	135.00	.15000	876.00	.1309	.9510-01	.1584	9271	.4510-02	.7512-02	.5480	4.017	544.6
83	135.00	.20000	877.00	.7160-01	.5320-01	.9010-01	.9202	.2524-02	.4275-02	.3270	2.219	536.5
83	135.00	.35000	878.00	.4550-01	.3410-01	.5790-01	.9183	.1616-02	.2749-02	.2130	1.334	534.2
83	135.00	.40000	879.00	.3930-01	.2940-01	.4990-01	.9183	.1394-02	.2368-02	.1850	1.178	533.8
83	135.00	.50000	880.00	.3470-01	.2580-01	.4440-01	.9183	.1222-02	.2106-02	.1580	1.094	536.5
83	135.00	.55000	881.00	.3010-01	.2240-01	.3840-01	.9183	.1062-02	.1823-02	.1390	.9280	535.8
83	135.00	.60000	882.00	.3830-01	.2880-01	.4850-01	.9183	.1364-02	.2301-02	.1820	1.235	532.5
83	135.00	.65000	883.00	.3400-01	.2560-01	.4290-01	.9183	.1216-02	.2036-02	.1640	1.130	531.1
83	135.00	.70000	884.00	.3800-01	.2850-01	.4820-01	.9183	.1351-02	.2288-02	.1800	1.285	533.3
83	135.00	.75000	885.00	.3200-01	.2400-01	.4050-01	.9183	.1139-02	.1921-02	.1520	.9670	532.4

(RV7F147

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TC) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
83	135.00	.80000	886.00	.4590-01	.3480-01	.5740-01	.9183	.1651-02	.2725-02	.2280	1.445	528.2
83	135.00	.84000	887.00	.3830-01	.2910-01	.4800-01	.9183	.1379-02	.2277-02	.1900	1.209	528.1
81	180.00	.40000-01	600.00	.5099	.3503	.4782	.9573	.1661-01	.2267-01	1.768	11.29	559.6
81	180.00	.50000-01	601.00	.4587	.3189	.4442	.9537	.1512-01	.2106-01	1.651	10.59	556.8
81	180.00	.60000-01	602.00	.4594	.3047	.4579	.9503	.1444-01	.2171-01	1.428	9.414	567.2
81	180.00	.70000-01	603.00	.4455	.2832	.4610	.9471	.1342-01	.2186-01	1.227	8.257	574.7
81	180.00	.80000-01	604.00	.2953	.2047	.3131	.9440	.3704-02	.1484-01	1.046	6.762	558.3
81	180.00	.10000+00	605.00	.2049	.1438	.2275	.9383	.6816-02	.1079-01	.7610	5.442	554.4
81	180.00	.15000	606.00	.1174	.8320-01	.1448	.9271	.3943-02	.6865-02	.4500	3.264	551.9
81	180.00	.20000	607.00	.6340-01	.4600-01	.8180-01	.9202	.2181-02	.3876-02	.2650	1.731	544.5
81	180.00	.21000	608.00	.5010-01	.3660-01	.6480-01	.9194	.1734-02	.3074-02	.2130	1.478	542.9
81	180.00	.22000	609.00	.3980-01	.2910-01	.5180-01	.9188	.1378-02	.2453-02	.1700	1.267	542.7
81	180.00	.35000	611.00	.3570-01	.2610-01	.4630-01	.9183	.1239-02	.2196-02	.1550	1.034	541.2
81	180.00	.36000	612.00	.3520-01	.2580-01	.4570-01	.9183	.1223-02	.2166-02	.1530	1.031	541.0
81	180.00	.37000	613.00	.2790-01	.2040-01	.3630-01	.9183	.9678-03	.1719-02	.1210	.8120	541.5
81	180.00	.37500	614.00	.3390-01	.2480-01	.4410-01	.9183	.1175-02	.2089-02	.1460	.9860	541.6
81	180.00	.38000	615.00	.4860-01	.3570-01	.6310-01	.9183	.1691-02	.2993-02	.2120	1.426	540.9
81	180.00	.38500	616.00	.3870-01	.2840-01	.5020-01	.9183	.1347-02	.2382-02	.1690	1.137	540.8
81	180.00	.39000	617.00	.3710-01	.2720-01	.4810-01	.9183	.1291-02	.2281-02	.1620	1.088	540.6
81	180.00	.39500	618.00	.3460-01	.2540-01	.4490-01	.9183	.1205-02	.2126-02	.1510	1.024	540.4
81	180.00	.40000	619.00	.3920-01	.2880-01	.5080-01	.9183	.1366-02	.2406-02	.1720	1.156	540.2
81	180.00	.40500	620.00	.3870-01	.2840-01	.5020-01	.9183	.1348-02	.2379-02	.1690	1.141	540.5
81	180.00	.41000	621.00	.4020-01	.2950-01	.5210-01	.9183	.1399-02	.2472-02	.1750	1.182	540.7
81	180.00	.41500	622.00	.3930-01	.2930-01	.5180-01	.9183	.1390-02	.2454-02	.1740	1.173	540.5
81	180.00	.42500	624.00	.4070-01	.2980-01	.5300-01	.9183	.1413-02	.2510-02	.1760	1.181	541.6
81	180.00	.43000	625.00	.3620-01	.2650-01	.4710-01	.9183	.1255-02	.2230-02	.1560	1.053	541.6
81	180.00	.44000	626.00	.3680-01	.2700-01	.4780-01	.9183	.1279-02	.2264-02	.1600	1.078	541.0
81	180.00	.44500	627.00	.3680-01	.2700-01	.4770-01	.9183	.1278-02	.2263-02	.1600	1.078	541.0
81	180.00	.45000	628.00	.3510-01	.2580-01	.4560-01	.9183	.1221-02	.2162-02	.1530	1.039	540.9
81	180.00	.45500	629.00	.3520-01	.2590-01	.4570-01	.9183	.1227-02	.2164-02	.1540	1.054	540.5
81	180.00	.46000	630.00	.3630-01	.2670-01	.4710-01	.9183	.1267-02	.2238-02	.1590	1.075	540.2
81	180.00	.46500	631.00	.3650-01	.2680-01	.4740-01	.9183	.1270-02	.2246-02	.1590	1.073	540.8
81	180.00	.47000	632.00	.3230-01	.2370-01	.4260-01	.9183	.1121-02	.1980-02	.1400	.9570	541.3
81	180.00	.48000	634.00	.2890-01	.2120-01	.3760-01	.9183	.1006-02	.1783-02	.1260	.8820	541.2
81	180.00	.50000	636.00	.1680-01	.1230-01	.2180-01	.9183	.5840-03	.1033-02	.7310	.5130	541.5
81	180.00	.55000	635.00	.9570-01	.7030-01	.1240-01	.9183	.3330-03	.5890-03	.4160	.2920	540.6
81	180.00	.60000	636.00	.4080-01	.2980-01	.5260-01	.9183	.1412-02	.2494-02	.1770	1.145	540.6
81	180.00	.65000	637.00	.3620-01	.2660-01	.4690-01	.9183	.1262-02	.2224-02	.1590	1.029	540.3
81	180.00	.70000	638.00	.3310-01	.2420-01	.4310-01	.9183	.1149-02	.2044-02	.1430	.9790	541.8
81	180.00	.75000	639.00	.2600-01	.1910-01	.3380-01	.9183	.9039-03	.1602-02	.1130	.7300	541.2
81	180.00	.78000	640.00	.3160-01	.2330-01	.4130-01	.9183	.1106-02	.1956-02	.1390	.8710	540.8
81	180.00	.80000	641.00	.3210-01	.2360-01	.4170-01	.9183	.1114-02	.1976-02	.1390	.8800	541.3
81	180.00	.82000	642.00	.3180-01	.2330-01	.4140-01	.9183	.1103-02	.1953-02	.1370	.8810	541.8
81	180.00	.85000	643.00	.3260-01	.2390-01	.4260-01	.9183	.1131-02	.2016-02	.1430	.9050	542.3

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F141)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
81	180.00	.88000	644.00	.3750-01	.2730-01	.4900-01	.9183	.1296-02	.2321-02	.1600	1.040	542.8
81	180.00	.89000	645.00	.3260-01	.2380-01	.4260-01	.9183	.1128-02	.2021-02	.1390	.9160	542.9
81	180.00	.90000	646.00	.1930-01	.1410-01	.2510-01	.9183	.6701-03	.1189-02	.8400-01	.5630	541.3
81	180.00	.92600	648.00	.2850-01	.2080-01	.3730-01	.9183	.9859-03	.1769-02	.1210	.8850	543.2
81	180.00	.95000	649.00	.3980-01	.2890-01	.5220-01	.9183	.1369-02	.2476-02	.1670	1.205	544.3
81	191.25	.35000	650.00	.4880-01	.3560-01	.6380-01	.9183	.1690-02	.3025-02	.2080	1.403	542.8
81	191.25	.36000	651.00	.4270-01	.3130-01	.5570-01	.9183	.1483-02	.2640-02	.1840	1.244	541.9
81	191.25	.37000	652.00	.4050-01	.2970-01	.5280-01	.9183	.1406-02	.2503-02	.1740	1.175	541.9
81	191.25	.37500	653.00	.3770-01	.2760-01	.4910-01	.9183	.1308-02	.2328-02	.1620	1.098	541.8
81	191.25	.38000	654.00	.3810-01	.2790-01	.4960-01	.9183	.1323-02	.2350-02	.1650	1.113	541.5
81	191.25	.38500	655.00	.3680-01	.2690-01	.4790-01	.9183	.1278-02	.2270-02	.1590	1.075	541.6
81	191.25	.39000	656.00	.3720-01	.2730-01	.4840-01	.9183	.1293-02	.2297-02	.1610	1.089	541.5
81	191.25	.41000	660.00	.3610-01	.2640-01	.4690-01	.9183	.1254-02	.2225-02	.1560	1.056	541.4
81	191.25	.41500	661.00	.3540-01	.2670-01	.4730-01	.9183	.1265-02	.2242-02	.1590	1.066	541.1
81	191.25	.42000	662.00	.3920-01	.2870-01	.5100-01	.9183	.1360-02	.2416-02	.1690	1.144	541.6
81	191.25	.42500	663.00	.3800-01	.2780-01	.4940-01	.9183	.1320-02	.2340-02	.1650	1.118	541.2
81	191.25	.43000	664.00	.3830-01	.2810-01	.4990-01	.9183	.1332-02	.2365-02	.1660	1.136	541.4
81	191.25	.44000	665.00	.3860-01	.2830-01	.5030-01	.9183	.1341-02	.2382-02	.1670	1.136	541.5
81	191.25	.45000	666.00	.3780-01	.2770-01	.4910-01	.9183	.1313-02	.2328-02	.1640	1.114	541.3
81	191.25	.45500	667.00	.3740-01	.2740-01	.4860-01	.9183	.1301-02	.2305-02	.1620	1.105	541.2
81	191.25	.46000	668.00	.3630-01	.2670-01	.4720-01	.9183	.1264-02	.2239-02	.1580	1.078	541.1
81	191.25	.47000	669.00	.3860-01	.2830-01	.5020-01	.9183	.1344-02	.2378-02	.1680	1.151	540.9
81	191.25	.48000	670.00	.3560-01	.2620-01	.4620-01	.9183	.1241-02	.2191-02	.1560	1.066	540.5
81	191.25	.49000	671.00	.3710-01	.2710-01	.4830-01	.9183	.1285-02	.2290-02	.1590	1.088	542.0
81	191.25	.50000	672.00	.3510-01	.2640-01	.4700-01	.9183	.1252-02	.2226-02	.1560	1.084	541.7
81	191.25	.60000	673.00	.3630-01	.2650-01	.4730-01	.9183	.1257-02	.2240-02	.1560	1.002	542.1
81	191.25	.70000	674.00	.4090-01	.2980-01	.5340-01	.9183	.1415-02	.2532-02	.1740	1.188	542.8
81	191.25	.85000	676.00	.2830-01	.2070-01	.3670-01	.9183	.9824-03	.1742-02	.1230	.7770	541.3
81	191.25	.86000	677.00	.3260-01	.2390-01	.4250-01	.9183	.1133-02	.2014-02	.1410	.9030	541.7
81	191.25	.87000	678.00	.3600-01	.2640-01	.4690-01	.9183	.1251-02	.2225-02	.1550	1.005	541.8
81	191.25	.88000	679.00	.3520-01	.2570-01	.4590-01	.9183	.1218-02	.2178-02	.1500	.9830	542.6
81	191.25	.89000	680.00	.3520-01	.2570-01	.4600-01	.9183	.1219-02	.2179-02	.1500	.9980	542.6
81	191.25	.90000	681.00	.2420-01	.1770-01	.3160-01	.9183	.8385-03	.1499-02	.1040	.7000	542.5
81	191.25	.91000	682.00	.9600-02	.7000-02	.1240-01	.9183	.3329-03	.5887-03	.4200-01	.3050	540.8
81	191.25	.92600	683.00	.2020-01	.1470-01	.2640-01	.9183	.6982-03	.1251-02	.8600-01	.6310	542.9
81	191.25	.95000	684.00	.3990-01	.2900-01	.5230-01	.9183	.1376-02	.2477-02	.1680	1.218	543.7
81	197.00	.33000	685.00	.4370-01	.3190-01	.5700-01	.9183	.1514-02	.2701-02	.1880	1.264	542.2
81	197.00	.34000	686.00	.4190-01	.3070-01	.5460-01	.9183	.1453-02	.2590-02	.1800	1.214	542.1
81	197.00	.35000	687.00	.4600-01	.3370-01	.5990-01	.9183	.1597-02	.2840-02	.1930	1.338	541.7
81	197.00	.36000	688.00	.4050-01	.2970-01	.5280-01	.9183	.1407-02	.2502-02	.1750	1.180	541.7
81	197.00	.37000	689.00	.4140-01	.3030-01	.5390-01	.9183	.1435-02	.2554-02	.1780	1.201	541.8
81	197.00	.37500	690.00	.4620-01	.3380-01	.6020-01	.9183	.1602-02	.2852-02	.1990	1.344	541.9
81	197.00	.50000	691.00	.3630-01	.2660-01	.4720-01	.9183	.1260-02	.2237-02	.1570	1.057	541.5

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F14)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
81	197.00	.60000	692.00	.3800-01	.2790-01	.4930-01	.9183	.1324-02	.2336-02	.1660	1.075	540.5
81	197.00	.70000	693.00	.4840-01	.3550-01	.6280-01	.9183	.1686-02	.2976-02	.2120	1.441	540.5
81	197.00	.80000	694.00	.4170-01	.3070-01	.5410-01	.9183	.1454-02	.2563-02	.1830	1.154	540.2
81	197.00	.87000	695.00	.3730-01	.2740-01	.4860-01	.9183	.1297-02	.2302-02	.1620	1.033	541.4
81	197.00	.92000	695.00	.3330-01	.2410-01	.4360-01	.9183	.1161-02	.1997-02	.1450	.8030	542.9
81	197.00	.96000	695.00	.3000-01	.2170-01	.3920-01	.9183	.1045-02	.1797-02	.1310	1.654	540.6
81	197.00	.98000	695.00	.2700-01	.1950-01	.3520-01	.9183	.9390-03	.1614-02	.1180	12.39	538.6
81	197.00	.99000	695.00	.2430-01	.1750-01	.3160-01	.9183	.8440-03	.1451-02	.1060	11.03	538.5
81	199.80	.18000-01	697.00	.6534	.4734	.5986	.9183	.2272-01	.3906-01	2.850	8.980	538.4
81	199.80	.30000-01	696	.8356	.6054	.7666	.9137	.2907-01	.4996-01	3.648	6.940	538.6
81	199.80	.50000-01	696	.9174	.6646	.8374	.9183	.3191-01	.5484-01	4.005	5.948	540.1
81	199.80	.70000-01	696	.9536	.6908	.8705	.9183	.3317-01	.5701-01	4.164	5.440	541.6
81	199.80	.90000-01	696	.9683	.7014	.8839	.9183	.3368-01	.5789-01	4.228	5.186	542.3
81	199.80	.11000	696	.9744	.7058	.8895	.9183	.3389-01	.5825-01	4.254	5.064	542.6
81	199.80	.13000	696	.9770	.7077	.8919	.9183	.3398-01	.5840-01	4.265	5.003	542.7
81	199.80	.15000	696	.9781	.7085	.8929	.9183	.3402-01	.5847-01	4.270	4.973	542.8
81	199.80	.17000	696	.9786	.7089	.8934	.9183	.3404-01	.5850-01	4.272	4.958	542.8
81	199.80	.19000	696	.9788	.7090	.8936	.9183	.3405-01	.5851-01	4.273	4.951	542.8
81	199.80	.21000	696	.9789	.7091	.8937	.9183	.3405-01	.5852-01	4.273	4.947	542.8
81	199.80	.23000	696	.9790	.7092	.8938	.9183	.3405-01	.5852-01	4.274	4.945	542.8
81	199.80	.25000	696	.9790	.7092	.8938	.9183	.3405-01	.5852-01	4.274	4.944	542.8
81	199.80	.27000	696	.9790	.7092	.8938	.9183	.3405-01	.5852-01	4.274	4.943	542.8
81	199.80	.29000	696	.9790	.7092	.8938	.9183	.3405-01	.5852-01	4.274	4.943	542.8
81	199.80	.31000	696	.9790	.7092	.8938	.9183	.3405-01	.5852-01	4.274	4.943	542.8
81	199.80	.33000	696	.9790	.7092	.8938	.9183	.3405-01	.5852-01	4.274	4.943	542.8
81	199.80	.35000	696	.9790	.7092	.8938	.9183	.3405-01	.5852-01	4.274	4.943	542.8
81	199.80	.37000	696	.9790	.7092	.8938	.9183	.3405-01	.5852-01	4.274	4.943	542.8
81	199.80	.39000	696	.9790	.7092	.8938	.9183	.3405-01	.5852-01	4.274	4.943	542.8
81	199.80	.41000	696	.9790	.7092	.8938	.9183	.3405-01	.5852-01	4.274	4.943	542.8
81	199.80	.43000	696	.9790	.7092	.8938	.9183	.3405-01	.5852-01	4.274	4.943	542.8
81	199.80	.45000	696	.9790	.7092	.8938	.9183	.3405-01	.5852-01	4.274	4.943	542.8
81	199.80	.47000	696	.9790	.7092	.8938	.9183	.3405-01	.5852-01	4.274	4.943	542.8
81	199.80	.49000	696	.9790	.7092	.8938	.9183	.3405-01	.5852-01	4.274	4.943	542.8
81	199.80	.51000	696	.9790	.7092	.8938	.9183	.3405-01	.5852-01	4.274	4.943	542.8
81	199.80	.53000	696	.9790	.7092	.8938	.9183	.3405-01	.5852-01	4.274	4.943	542.8
81	199.80	.55000	696	.9790	.7092	.8938	.9183	.3405-01	.5852-01	4.274	4.943	542.8
81	199.80	.57000	696	.9790	.7092	.8938	.9183	.3405-01	.5852-01	4.274	4.943	542.8
81	199.80	.59000	696	.9790	.7092	.8938	.9183	.3405-01	.5852-01	4.274	4.943	542.8
81	199.80	.61000	696	.9790	.7092	.8938	.9183	.3405-01	.5852-01	4.274	4.943	542.8
81	199.80	.63000	696	.9790	.7092	.8938	.9183	.3405-01	.5852-01	4.274	4.943	542.8
81	199.80	.65000	696	.9790	.7092	.8938	.9183	.3405-01	.5852-01	4.274	4.943	542.8
81	199.80	.67000	696	.9790	.7092	.8938	.9183	.3405-01	.5852-01	4.274	4.943	542.8
81	199.80	.69000	696	.9790	.7092	.8938	.9183	.3405-01	.5852-01	4.274	4.943	542.8
81	199.80	.71000	696	.9790	.7092	.8938	.9183	.3405-01	.5852-01	4.274	4.943	542.8
81	199.80	.73000	696	.9790	.7092	.8938	.9183	.3405-01	.5852-01	4.274	4.943	542.8
81	199.80	.75000	696	.9790	.7092	.8938	.9183	.3405-01	.5852-01	4.274	4.943	542.8
81	199.80	.77000	696	.9790	.7092	.8938	.9183	.3405-01	.5852-01	4.274	4.943	542.8
81	199.80	.79000	696	.9790	.7092	.8938	.9183	.3405-01	.5852-01	4.274	4.943	542.8
81	199.80	.81000	696	.9790	.7092	.8938	.9183	.3405-01	.5852-01	4.274	4.943	542.8
81	199.80	.83000	696	.9790	.7092	.8938	.9183	.3405-01	.5852-01	4.274	4.943	542.8
81	199.80	.85000	696	.9790	.7092	.8938	.9183	.3405-01	.5852-01	4.274	4.943	542.8
81	199.80	.87000	696	.9790	.7092	.8938	.9183	.3405-01	.5852-01	4.274	4.943	542.8
81	199.80	.89000	696	.9790	.7092	.8938	.9183	.3405-01	.5852-01	4.274	4.943	542.8
81	199.80	.91000	696	.9790	.7092	.8938	.9183	.3405-01	.5852-01	4.274	4.943	542.8
81	199.80	.93000	696	.9790	.7092	.8938	.9183	.3405-01	.5852-01	4.274	4.943	542.8
81	199.80	.95000	696	.9790	.7092	.8938	.9183	.3405-01	.5852-01	4.274	4.943	542.8
81	199.80	.97000	696	.9790	.7092	.8938	.9183	.3405-01	.5852-01	4.274	4.943	542.8
81	199.80	.99000	696	.9790	.7092	.8938	.9183	.3405-01	.5852-01	4.274	4.943	542.8

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F14)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = .0000 BETA = .0000 GRIT = 3.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
48	5.500	4.952	.0000	.0000	.0000	177.4	.1910	743.0	105.3	4.037	2766.	.1519-03
49	5.500	4.974	-.2000-01	.0000	.0000	177.7	.1910	741.0	105.2	4.044	2764.	.1524-03
50	5.500	4.927	-.2000-01	.0000	.0000	177.4	.1910	746.0	105.7	4.037	2771.	.1513-03
281	5.500	4.950	.0000	.0000	.0000	178.1	.1910	745.0	105.7	4.054	2772.	.1520-03

RUN NUMBER	MU LB-SEC /FT2	UREF BTU/ R FT2SEC	ST FR REF(B) = 0175
48	.8421-07	.4471-01	.1366-01
49	.8466-07	.4472-01	.1368-01
50	.8510-07	.4470-01	.1369-01
281	.8503-07	.4471-01	.1370-01

TEST DATA

RUN NUMBER	PHI	X/L	T/C X1	H/HREF P=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	HITO: BTU/ R FT2SEC	HITAW: BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHET DEG. R /SEC	TW DEG. R
48	.00000	.30000-01	735.00	.1320	.3161	.3731	.9843	.1414-01	.1669-01	2.454	16.67	567.9
49	.00000	.40000-01	737.00	.1165	.9070-01	.1317	.9130	.4057-02	.5894-02	.9390	5.917	534.8
49	.00000	.50000-01	738.00	.6880-01	.4290-01	.6810-01	.9120	.1919-02	.2778-02	.4000	2.743	532.9
49	.00000	.60000-01	739.00	.3980-01	.3260-01	.3800-01	.9508	.1453-02	.1700-02	.2890	2.061	536.5
49	.00000	.70000-01	740.00	.1846	.1332	.1691	.9588	.5861-02	.7074-02	1.158	7.881	547.0
49	.00000	.80000-01	741.00	.6182	.3994	.4925	.9571	.1787-01	.2203-01	3.007	20.31	573.1
49	.00000	.90000-01	742.00	.4947	.3904	.4804	.9556	.1747-01	.2149-01	3.071	19.85	565.5
49	.00000	.10000+00	743.00	.4950	.3895	.4850	.9638	.1743-01	.2170-01	3.035	19.89	567.2
49	.00000	.11000+00	744.00	.3794	.2961	.3824	.9486	.1325-01	.1711-01	2.337	14.84	572.5
49	.00000	.12000+00	745.00	.4510	.3438	.4645	.9453	.1538-01	.2078-01	2.400	15.92	585.4
49	.00000	.13000+00	746.00	.2988	.2344	.3123	.9422	.1049-01	.1397-01	1.601	12.95	569.6
49	.00000	.14000+00	747.00	.2194	.1753	.2358	.9362	.7844-02	.1055-01	1.446	9.610	557.0
49	.00000	.15000+00	748.00	.1540	.1226	.1719	.9296	.5487-02	.7691-02	.9980	7.213	559.4
49	.00000	.16000+00	749.00	.1160	.9330-01	.1329	.9240	.4176-02	.5945-02	.7910	5.483	552.0
49	.00000	.17500	745.00	.7330-01	.5940-01	.8550-01	.9193	.2658-02	.3827-02	.5210	3.915	545.5
49	.00000	.20000	746.00	.5960-01	.4860-01	.7050-01	.9158	.2174-02	.3156-02	.4370	3.133	540.6

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F14)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. F
49	.00000	.21500	747.00	.3990-01	.3260-01	.4760-01	.9142	.1460-02	.2129-02	.2950	2.054	539.1
49	.00000	.23000	748.00	.2980-01	.2430-01	.3570-01	.9133	.1089-02	.1596-02	.2200	1.635	539.0
49	.00000	.24000	749.00	.2350-01	.1920-01	.2810-01	.9130	.8597-03	.1258-02	.1740	1.321	538.3
49	.00000	.25000	750.00	.9500-02	.7900-02	.1150-01	.9130	.3514-03	.5125-03	.7200-01	.5870	536.2
49	.00000	.30000	751.00	.2710-01	.2227-01	.3250-01	.9130	.9933-03	.1453-02	.2030	1.335	537.4
49	.00000	.35000	752.00	.3577-01	.2932-01	.4270-01	.9130	.1309-02	.1910-02	.2660	1.749	535.6
49	.00000	.40000	753.00	.3830-01	.2940-01	.4580-01	.9130	.1402-02	.2048-02	.2850	1.869	535.9
49	.00000	.45000	754.00	.3780-01	.2780-01	.4520-01	.9130	.1384-02	.2022-02	.2810	1.845	536.3
49	.00000	.50000	755.00	.3660-01	.2660-01	.4380-01	.9130	.1340-02	.1958-02	.2720	1.787	537.1
49	.00000	.55000	756.00	.3600-01	.2600-01	.4310-01	.9130	.1318-02	.1926-02	.2680	1.758	537.8
49	.00000	.60000	757.00	.3540-01	.2540-01	.4230-01	.9130	.1296-02	.1894-02	.2630	1.728	538.3
49	.00000	.65000	758.00	.3480-01	.2480-01	.4160-01	.9130	.1274-02	.1862-02	.2590	1.699	538.9
49	.00000	.70000	759.00	.3420-01	.2420-01	.4090-01	.9130	.1252-02	.1830-02	.2540	1.669	539.3
49	.00000	.75000	760.00	.3360-01	.2360-01	.4020-01	.9130	.1230-02	.1798-02	.2500	1.640	539.7
49	.00000	.80000	761.00	.3300-01	.2300-01	.3950-01	.9130	.1208-02	.1766-02	.2450	1.611	539.8
49	.00000	.85000	762.00	.3240-01	.2240-01	.3880-01	.9130	.1186-02	.1734-02	.2410	1.581	539.8
49	.00000	.90000	763.00	.3180-01	.2180-01	.3810-01	.9130	.1164-02	.1702-02	.2360	1.552	539.8
49	.00000	.95000	764.00	.3120-01	.2120-01	.3740-01	.9130	.1142-02	.1670-02	.2320	1.523	539.8
49	.00000	1.00000	765.00	.3060-01	.2060-01	.3670-01	.9130	.1120-02	.1638-02	.2270	1.493	539.8
49	.00000	1.05000	766.00	.3000-01	.2000-01	.3600-01	.9130	.1098-02	.1606-02	.2230	1.464	539.8
49	.00000	1.10000	767.00	.2940-01	.1940-01	.3530-01	.9130	.1076-02	.1574-02	.2180	1.435	539.8
49	.00000	1.15000	768.00	.2880-01	.1880-01	.3460-01	.9130	.1054-02	.1542-02	.2140	1.405	539.8
49	.00000	1.20000	769.00	.2820-01	.1820-01	.3390-01	.9130	.1032-02	.1510-02	.2090	1.376	539.8
49	.00000	1.25000	770.00	.2760-01	.1760-01	.3320-01	.9130	.1010-02	.1478-02	.2050	1.347	539.8
49	.00000	1.30000	771.00	.2700-01	.1700-01	.3250-01	.9130	.9880-03	.1446-02	.2000	1.317	539.8
49	.00000	1.35000	772.00	.2640-01	.1640-01	.3180-01	.9130	.9660-03	.1414-02	.1960	1.288	539.8
49	.00000	1.40000	773.00	.2580-01	.1580-01	.3110-01	.9130	.9440-03	.1382-02	.1910	1.259	539.8
49	.00000	1.45000	774.00	.2520-01	.1520-01	.3040-01	.9130	.9220-03	.1350-02	.1870	1.229	539.8
49	.00000	1.50000	775.00	.2460-01	.1460-01	.2970-01	.9130	.9000-03	.1318-02	.1820	1.200	539.8
49	.00000	1.55000	776.00	.2400-01	.1400-01	.2900-01	.9130	.8780-03	.1286-02	.1780	1.171	539.8
49	.00000	1.60000	777.00	.2340-01	.1340-01	.2830-01	.9130	.8560-03	.1254-02	.1730	1.141	539.8
49	.00000	1.65000	778.00	.2280-01	.1280-01	.2760-01	.9130	.8340-03	.1222-02	.1690	1.112	539.8
49	.00000	1.70000	779.00	.2220-01	.1220-01	.2690-01	.9130	.8120-03	.1190-02	.1640	1.083	539.8
49	.00000	1.75000	780.00	.2160-01	.1160-01	.2620-01	.9130	.7900-03	.1158-02	.1600	1.053	539.8
49	.00000	1.80000	781.00	.2100-01	.1100-01	.2550-01	.9130	.7680-03	.1126-02	.1550	1.024	539.8
49	.00000	1.85000	782.00	.2040-01	.1040-01	.2480-01	.9130	.7460-03	.1094-02	.1510	.9950	539.8
49	.00000	1.90000	783.00	.1980-01	.9800-02	.2410-01	.9130	.7240-03	.1062-02	.1460	.9660	539.8
49	.00000	1.95000	784.00	.1920-01	.9200-02	.2340-01	.9130	.7020-03	.1030-02	.1420	.9370	539.8
49	.00000	2.00000	785.00	.1860-01	.8600-02	.2270-01	.9130	.6800-03	.9980-03	.1370	.9080	539.8
49	.00000	2.05000	786.00	.1800-01	.8000-02	.2200-01	.9130	.6580-03	.9660-03	.1330	.8790	539.8
49	.00000	2.10000	787.00	.1740-01	.7400-02	.2130-01	.9130	.6360-03	.9340-03	.1280	.8500	539.8
49	.00000	2.15000	788.00	.1680-01	.6800-02	.2060-01	.9130	.6140-03	.9020-03	.1240	.8210	539.8
49	.00000	2.20000	789.00	.1620-01	.6200-02	.1990-01	.9130	.5920-03	.8700-03	.1190	.7920	539.8
49	.00000	2.25000	790.00	.1560-01	.5600-02	.1920-01	.9130	.5700-03	.8380-03	.1150	.7630	539.8
49	.00000	2.30000	791.00	.1500-01	.5000-02	.1850-01	.9130	.5480-03	.8060-03	.1100	.7340	539.8
49	.00000	2.35000	792.00	.1440-01	.4400-02	.1780-01	.9130	.5260-03	.7740-03	.1060	.7050	539.8
49	.00000	2.40000	793.00	.1380-01	.3800-02	.1710-01	.9130	.5040-03	.7420-03	.1010	.6760	539.8
49	.00000	2.45000	794.00	.1320-01	.3200-02	.1640-01	.9130	.4820-03	.7100-03	.9720-01	.6470	539.8
49	.00000	2.50000	795.00	.1260-01	.2600-02	.1570-01	.9130	.4600-03	.6780-03	.9270-01	.6180	539.8
49	.00000	2.55000	796.00	.1200-01	.2000-02	.1500-01	.9130	.4380-03	.6460-03	.8820-01	.5890	539.8
49	.00000	2.60000	797.00	.1140-01	.1400-02	.1430-01	.9130	.4160-03	.6140-03	.8370-01	.5600	539.8
49	.00000	2.65000	798.00	.1080-01	.8000-03	.1360-01	.9130	.3940-03	.5820-03	.7920-01	.5310	539.8
49	.00000	2.70000	799.00	.1020-01	.2000-03	.1290-01	.9130	.3720-03	.5500-03	.7470-01	.5020	539.8
49	.00000	2.75000	800.00	.9600-02	-.4000-03	.1220-01	.9130	.3500-03	.5180-03	.7020-01	.4730	539.8
49	.00000	2.80000	801.00	.9000-02	-.1000-02	.1150-01	.9130	.3280-03	.4860-03	.6570-01	.4440	539.8
49	.00000	2.85000	802.00	.8400-02	-.1600-02	.1080-01	.9130	.3060-03	.4540-03	.6120-01	.4150	539.8
49	.00000	2.90000	803.00	.7800-02	-.2200-02	.1010-01	.9130	.2840-03	.4220-03	.5670-01	.3860	539.8
49	.00000	2.95000	804.00	.7200-02	-.2800-02	.9400-02	.9130	.2620-03	.3900-03	.5220-01	.3570	539.8
49	.00000	3.00000	805.00	.6600-02	-.3400-02	.8700-02	.9130	.2400-03	.3580-03	.4770-01	.3280	539.8

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
251	67.500	.60000	790.00	.8200-01	.5860-01	.9830-01	.9293	.3248-02	.5447-02	.3870	2.523	561.8
251	67.500	.70000	791.00	.8800-01	.6080-01	.1079	.9293	.3371-02	.5984-02	.3720	2.595	570.7
251	67.500	.80000	792.00	.9450-01	.6590-01	.1153	.9293	.3652-02	.6389-02	.4110	2.552	568.6
251	67.500	.90000	793.00	.6470-01	.4280-01	.8210-01	.9293	.2373-02	.4553-02	.2390	1.514	580.4
251	78.000	.27000	794.00	.7020-01	.4960-01	.8500-01	.9290	.2750-02	.4712-02	.3190	2.256	565.0
251	78.000	.29000	795.00	.1090	.7640-01	.1328	.9290	.4235-02	.7364-02	.4820	2.938	567.3
50	78.000	.30000	796.00	.2920-01	.2400-01	.3480-01	.9130	.1075-02	.1556-02	.2260	1.375	535.4
50	78.000	.31000	797.00	.3190-01	.2620-01	.3800-01	.9130	.1174-02	.1700-02	.2460	1.501	535.5
50	78.000	.32000	798.00	.3260-01	.2680-01	.3880-01	.9130	.1201-02	.1738-02	.2520	1.527	535.4
50	78.000	.32500	799.00	.3410-01	.2810-01	.4060-01	.9130	.1255-02	.1817-02	.2630	1.599	535.6
50	78.000	.33000	800.00	.3410-01	.2810-01	.4060-01	.9130	.1256-02	.1817-02	.2630	1.602	535.3
50	78.000	.33500	801.00	.3570-01	.2940-01	.4250-01	.9130	.1314-02	.1903-02	.2750	1.675	535.5
50	78.000	.34000	802.00	.3420-01	.2810-01	.4070-01	.9130	.1259-02	.1821-02	.2650	1.609	535.1
50	78.000	.34500	803.00	.3590-01	.2950-01	.4270-01	.9130	.1322-02	.1912-02	.2780	1.692	535.2
50	78.000	.35000	804.00	.3510-01	.2890-01	.4180-01	.9130	.1293-02	.1870-02	.2720	1.656	535.1
50	78.000	.35500	805.00	.3720-01	.3060-01	.4420-01	.9130	.1367-02	.1977-02	.2870	1.753	535.(
50	78.000	.36000	806.00	.3550-01	.2920-01	.4220-01	.9130	.1307-02	.1889-02	.2750	1.679	535.0
50	78.000	.36500	807.00	.3620-01	.2980-01	.4300-01	.9130	.1331-02	.1925-02	.2800	1.715	535.0
50	78.000	.37000	808.00	.3480-01	.2870-01	.4140-01	.9130	.1282-02	.1853-02	.2700	1.657	534.9
50	78.000	.37500	809.00	.3690-01	.3040-01	.4400-01	.9130	.1360-02	.1966-02	.2860	1.756	535.1
50	78.000	.38000	810.00	.3400-01	.2800-01	.4040-01	.9130	.1251-02	.1809-02	.2630	1.627	534.9
50	78.000	.39000	811.00	.2960-01	.2430-01	.3520-01	.9130	.1088-02	.1573-02	.2280	1.416	535.2
50	78.000	.40000	812.00	.3430-01	.2820-01	.4080-01	.9130	.1263-02	.1827-02	.2650	1.645	535.1
251	90.000	.40000-01	985.00	.5016	.3889	.4858	.9556	.1743-01	.2178-01	2.891	18.50	579.2
251	30.000	.50000-01	986.00	.4604	.3598	.4552	.9521	.1613-01	.2040-01	2.751	17.54	574.5
251	90.000	.60000-01	987.00	.4093	.3100	.4129	.9426	.1390-01	.1851-01	2.135	13.74	591.5
251	90.000	.80000-01	989.00	.2992	.2324	.3133	.9422	.1042-01	.1405-01	1.738	12.12	578.2
251	90.000	.15000	991.00	.1196	.9480-01	.1385	.9240	.4249-02	.6207-02	.7630	5.547	565.6
50	90.000	.20000	813.00	.3260-01	.2680-01	.3880-01	.9133	.1198-02	.1735-02	.2500	1.829	536.3
50	90.000	.24000	814.00	.2620-01	.2150-01	.3120-01	.9130	.9633-03	.1396-02	.2020	1.640	535.9
50	90.000	.27000	816.00	.1970-01	.1620-01	.2340-01	.9130	.7248-03	.1046-02	.1530	1.095	534.0
50	90.000	.29000	817.00	.2130-01	.1750-01	.2530-01	.9130	.7849-03	.1133-02	.1660	1.035	534.3
50	90.000	.30000	818.00	.2810-01	.2310-01	.3350-01	.9130	.1035-02	.1498-02	.2170	1.335	535.4
50	90.000	.31000	819.00	.3150-01	.2590-01	.3750-01	.9130	.1159-02	.1677-02	.2430	1.483	535.3
50	90.000	.32000	820.00	.3250-01	.2670-01	.3870-01	.9130	.1195-02	.1730-02	.2510	1.525	535.4
50	90.000	.32500	821.00	.3520-01	.2890-01	.4180-01	.9130	.1294-02	.1871-02	.2720	1.650	535.0
50	90.000	.33000	822.00	.3590-01	.2950-01	.4270-01	.9130	.1322-02	.1910-02	.2780	1.691	534.8
50	90.000	.33500	823.00	.3550-01	.2920-01	.4220-01	.9130	.1308-02	.1890-02	.2760	1.681	534.6
50	90.000	.34000	824.00	.3600-01	.2960-01	.4280-01	.9130	.1325-02	.1915-02	.2790	1.691	534.7
50	90.000	.34500	825.00	.3840-01	.3160-01	.4570-01	.9130	.1413-02	.2042-02	.2980	1.810	534.7
50	90.000	.35000	826.00	.3750-01	.3080-01	.4450-01	.9130	.1379-02	.1992-02	.2900	1.766	534.6
50	90.000	.36000	828.00	.3490-01	.2870-01	.4150-01	.9130	.1285-02	.1857-02	.2700	1.640	534.8
50	90.000	.37000	830.00	.3600-01	.2970-01	.4280-01	.9130	.1327-02	.1915-02	.2800	1.708	534.2

ORIGINAL PAGE IS
OF POOR QUALITY

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F14)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
50	90.000	.37500	831.00	.3630-01	.2990-01	.4310-01	.9130	.1337-02	.1930-02	.2820	1.732	534.0
50	90.000	.38000	832.00	.3680-01	.3030-01	.4380-01	.9130	.1355-02	.1957-02	.2860	1.752	534.4
50	90.000	.39000	833.00	.2870-01	.2360-01	.3410-01	.9130	.1056-02	.1525-02	.2230	1.381	534.3
50	90.000	.40000	834.00	.3430-01	.2820-01	.4070-01	.9130	.1261-02	.1822-02	.2660	1.652	534.6
50	90.000	.50000	835.00	.3540-01	.2910-01	.4220-01	.9130	.1300-02	.1886-02	.2710	1.722	536.6
50	90.000	.60000	836.00	.2460-01	.2020-01	.2930-01	.9130	.9036-03	.1310-02	.1890	1.264	536.3
50	90.000	.70000	837.00	.3110-01	.2560-01	.3710-01	.9130	.1145-02	.1659-02	.2400	1.697	535.9
50	90.000	.80000	838.00	.2790-01	.2290-01	.3320-01	.9130	.1026-02	.1484-02	.2150	1.346	535.2
50	90.000	.90000	839.00	.2200-01	.1820-01	.2610-01	.9130	.8137-03	.1170-02	.1730	1.116	532.1
50	112.50	.23000	840.00	.3390-01	.2780-01	.4030-01	.9133	.1246-02	.1803-02	.2600	2.111	536.1
50	112.50	.25000	841.00	.1720-01	.1410-01	.2040-01	.9130	.6326-03	.9122-03	.1340	1.044	533.6
50	112.50	.27000	842.00	.1420-01	.1170-01	.1690-01	.9130	.5229-03	.7547-03	.1100	.7770	534.1
50	112.50	.30000	843.00	.3290-01	.2700-01	.3910-01	.9130	.1210-02	.1751-02	.2540	1.518	535.5
50	112.50	.33000	844.00	.3580-01	.2940-01	.4260-01	.9130	.1316-02	.1904-02	.2760	1.676	535.2
50	112.50	.35000	845.00	.3700-01	.3040-01	.4400-01	.9130	.1361-02	.1968-02	.2860	1.762	535.1
50	112.50	.37000	846.00	.3510-01	.2880-01	.4170-01	.9130	.1290-02	.1865-02	.2720	1.684	534.7
50	112.50	.40000	847.00	.3630-01	.2990-01	.4310-01	.9130	.1336-02	.1929-02	.2820	1.768	534.2
50	112.50	.45000	848.00	.3680-01	.3030-01	.4370-01	.9130	.1354-02	.1956-02	.2850	1.802	534.7
50	112.50	.50000	849.00	.3670-01	.3020-01	.4370-01	.9130	.1351-02	.1956-02	.2830	1.830	535.7
50	112.50	.55000	850.00	.2810-01	.2310-01	.3340-01	.9130	.1033-02	.1494-02	.2170	1.457	535.2
50	112.50	.60000	851.00	.3280-01	.2690-01	.3900-01	.9130	.1204-02	.1746-02	.2510	1.693	536.4
50	112.50	.65000	852.00	.3340-01	.2740-01	.3980-01	.9130	.1227-02	.1780-02	.2560	1.750	536.6
50	112.50	.70000	853.00	.4220-01	.3470-01	.5020-01	.9130	.1551-02	.2247-02	.3250	2.290	535.9
50	112.50	.75000	854.00	.2890-01	.2380-01	.3440-01	.9130	.1067-02	.1538-02	.2260	1.475	533.4
50	112.50	.80000	855.00	.2910-01	.2400-01	.3470-01	.9130	.1073-02	.1551-02	.2260	1.476	534.9
50	112.50	.90000	856.00	.2080-01	.1710-01	.2460-01	.9130	.7664-03	.1101-02	.1630	1.068	532.0
50	125.40	.84000	857.00	.2820-01	.2320-01	.3350-01	.9130	.1037-02	.1497-02	.2180	1.358	534.5
50	125.40	.85000	858.00	.2850-01	.2350-01	.3400-01	.9130	.1051-02	.1519-02	.2210	1.381	534.9
50	125.40	.86000	859.00	.2940-01	.2420-01	.3500-01	.9130	.1084-02	.1567-02	.2280	1.435	535.0
50	125.40	.87000	860.00	.2860-01	.2360-01	.3410-01	.9130	.1054-02	.1524-02	.2220	1.400	535.0
50	125.40	.88000	861.00	.2930-01	.2410-01	.3490-01	.9130	.1079-02	.1561-02	.2270	1.432	535.2
50	125.40	.89000	862.00	.2990-01	.2460-01	.3560-01	.9130	.1102-02	.1593-02	.2320	1.472	535.0
50	125.40	.90000	863.00	.2830-01	.2330-01	.3360-01	.9130	.1043-02	.1505-02	.2210	1.411	533.8
50	125.40	.91000	864.00	.1370-01	.1130-01	.1620-01	.9130	.5058-03	.7258-03	.1080	.7920	531.3
50	125.40	.92600	865.00	.1850-01	.1520-01	.2210-01	.9130	.6808-03	.9865-03	.1420	1.038	535.9
50	129.30	.80000	866.00	.3700-01	.3040-01	.4410-01	.9130	.1361-02	.1971-02	.2850	1.804	535.5
50	129.30	.81000	867.00	.2820-01	.2320-01	.3350-01	.9130	.1038-02	.1500-02	.2180	1.372	534.9
50	129.30	.82000	868.00	.2870-01	.2370-01	.3420-01	.9130	.1059-02	.1529-02	.2230	1.405	534.2
50	129.30	.83000	869.00	.3030-01	.2490-01	.3600-01	.9130	.1114-02	.1610-02	.2350	1.480	534.6
50	135.00	.40000-01	870.00	.4922	.3878	.4778	.9556	.1735-01	.2137-01	3.047	19.37	569.6
50	135.00	.50000-01	871.00	.4583	.3645	.4535	.9521	.1631-01	.2029-01	2.967	18.81	563.2
50	135.00	.60000-01	872.00	.3914	.3053	.3943	.9487	.1366-01	.1764-01	2.313	15.14	575.8
50	135.00	.70000-01	873.00	.4500	.3447	.4631	.9454	.1542-01	.2072-01	2.456	16.38	585.9

(RV7F14)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
50	135.00	.10000+00	875.00	.2263	.1817	.2427	.9363	.8127-02	.1086-01	1.534	10.02	556.4
50	135.00	.15000	876.00	.1213	.9790-01	.1395	.9240	.4381-02	.6198-02	.8460	6.176	552.0
50	135.00	.20000	877.00	.6270-01	.5130-01	.7390-01	.9158	.2294-02	.3306-02	.4700	3.181	540.2
50	135.00	.35000	878.00	.4060-01	.3340-01	.4830-01	.9130	.1494-02	.2162-02	.3130	1.958	535.5
50	135.00	.40000	879.00	.3440-01	.2830-01	.4090-01	.9130	.1266-02	.1831-02	.2660	1.695	535.2
50	135.00	.50000	880.00	.3150-01	.2580-01	.3750-01	.9130	.1156-02	.1676-02	.2420	1.668	536.2
50	135.00	.55000	881.00	.2730-01	.2240-01	.3250-01	.9130	.1003-02	.1452-02	.2100	1.409	535.5
50	135.00	.60000	882.00	.3110-01	.2550-01	.3710-01	.9130	.1142-02	.1659-02	.2380	1.606	537.0
50	135.00	.65000	883.00	.3050-01	.2500-01	.3630-01	.9130	.1121-02	.1625-02	.2340	1.606	536.3
50	135.00	.70000	884.00	.3160-01	.2590-01	.3760-01	.9130	.1161-02	.1682-02	.2430	1.736	536.0
50	135.00	.75000	885.00	.2780-01	.2290-01	.3300-01	.9130	.1023-02	.1475-02	.2160	1.372	533.8
251	135.00	.80000	886.00	.9460-01	.6650-01	.1164	.9278	.3682-02	.6449-02	.4220	2.625	566.4
251	135.00	.84000	887.00	.7590-01	.5980-01	.9460-01	.9130	.2678-02	.4234-02	.0000	.0000	244.7
251	135.00	.85000	888.00	.3010-01	.2420-01	.3660-01	.9130	.1086-02	.1640-02	.2080	1.316	553.2
251	135.00	.87000	890.00	.2660-01	.2140-01	.3250-01	.9130	.9610-03	.1456-02	.1830	1.160	554.3
251	135.00	.88000	891.00	.2890-01	.2320-01	.3530-01	.9130	.1039-02	.1581-02	.1970	1.250	556.0
251	135.00	.89000	892.00	.2750-01	.2210-01	.3370-01	.9130	.9895-03	.1510-02	.1860	1.205	556.9
251	135.00	.91000	894.00	.8300-02	.6700-02	.1020-01	.9130	.3001-03	.4578-03	.5600-01	.4100	556.9
251	135.00	.92600	895.00	.1650-01	.1320-01	.2020-01	.9130	.5906-03	.9043-03	.1100	.7980	558.2
251	135.00	.95000	896.00	.2610-01	.2090-01	.3190-01	.9130	.9363-03	.1430-02	.1760	1.262	557.4
251	142.30	.42000	897.00	.3550-01	.2870-01	.4300-01	.9130	.1288-02	.1929-02	.2510	1.611	550.2
251	142.30	.43500	898.00	.3460-01	.2800-01	.4190-01	.9130	.1256-02	.1876-02	.2460	1.537	549.0
251	142.30	.45000	899.00	.3320-01	.2690-01	.4020-01	.9130	.1204-02	.1802-02	.2350	1.537	549.7
251	142.30	.50000	900.00	.3280-01	.2640-01	.3990-01	.9130	.1183-02	.1790-02	.2260	1.501	553.9
251	142.30	.60000	901.00	.3450-01	.2790-01	.4190-01	.9130	.1251-02	.1879-02	.2420	1.606	551.3
251	142.30	.70000	902.00	.3060-01	.2460-01	.3740-01	.9130	.1102-02	.1679-02	.2080	1.411	556.5
251	142.30	.80000	903.00	.3100-01	.2500-01	.3780-01	.9130	.1119-02	.1696-02	.2130	1.349	554.6
251	142.30	.87000	904.00	.2710-01	.2180-01	.3310-01	.9130	.9759-03	.1485-02	.1850	1.161	556.0
251	154.98	.42000	905.00	.3690-01	.2980-01	.4470-01	.9130	.1338-02	.2003-02	.2610	1.679	550.0
251	154.98	.43500	906.00	.3700-01	.2990-01	.4480-01	.9130	.1342-02	.2010-02	.2610	1.693	550.1
251	154.98	.45000	907.00	.3460-01	.2800-01	.4200-01	.9130	.1255-02	.1882-02	.2440	1.590	550.5
251	154.98	.50000	908.00	.3190-01	.2570-01	.3890-01	.9130	.1151-02	.1744-02	.2190	1.563	554.5
251	154.98	.93500	913.00	.2110-01	.1690-01	.2590-01	.9130	.7588-03	.1162-02	.1420	1.025	558.1
251	154.98	.94500	914.00	.1820-01	.1460-01	.2230-01	.9130	.6527-03	.9999-03	.1220	.8720	558.4
251	157.50	.70000-01	918.00	.3613	.2723	.3726	.9453	.1221-01	.1670-01	1.846	12.54	593.8
251	157.50	.80000-01	919.00	.3040	.2356	.3185	.9422	.1056-01	.1428-01	1.747	11.73	579.6
251	157.50	.10000+00	920.00	.2305	.1813	.2490	.9363	.8129-02	.1116-01	1.421	9.380	570.3
251	157.50	.20000	922.00	.5580-01	.4500-01	.6690-01	.9158	.2017-02	.2997-02	.3870	2.569	553.2
251	157.50	.42000	923.00	.3670-01	.2970-01	.4450-01	.9130	.1333-02	.1995-02	.2600	1.694	549.9
251	157.50	.43500	924.00	.3280-01	.2660-01	.3980-01	.9130	.1191-02	.1782-02	.2330	1.523	549.5
251	157.50	.45000	925.00	.3240-01	.2620-01	.3930-01	.9130	.1175-02	.1760-02	.2290	1.511	549.9
251	157.50	.85000	926.00	.2280-01	.1830-01	.2770-01	.9130	.8206-03	.1244-02	.1560	1.007	554.5
251	157.50	.86000	927.00	.2470-01	.1980-01	.3010-01	.9130	.8897-03	.1348-02	.1700	1.096	554.3

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F14)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TQ) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
251	157.50	.87000	928.00	.1950-01	.1570-01	.2390-01	.9130	.7038-03	.1070-02	.1330	.8630	555.7
251	157.50	.88000	929.00	.2450-01	.1970-01	.2990-01	9130	.8818-03	.1342-02	.1670	1.085	556.1
251	157.50	.89000	930.00	.2420-01	.1940-01	.2970-01	.9130	.8696-03	.1330-02	.1630	1.067	557.6
251	157.50	.90000	931.00	.1810-01	.1450-01	.2220-01	.9130	.6503-03	.9961-03	.1210	.8140	558.3
251	157.50	.91000	932.00	.6700-02	.5300-02	.8200-02	.9130	.2395-03	.3667-03	.4500-01	.3260	558.2
251	157.50	.92600	933.00	.1350-01	.1080-01	.1650-01	.9130	.4828-03	.7405-03	.9000-01	.6520	558.8
251	163.12	.41500	934.00	.3430-01	.2780-01	.4150-01	.9130	.1245-02	.1859-02	.2440	1.582	548.9
251	163.12	.42000	935.00	.3430-01	.2770-01	.4150-01	.9130	.1242-02	.1861-02	.2420	1.582	550.1
251	163.12	.43000	937.00	.3470-01	.2810-01	.4210-01	.9130	.1259-02	.1886-02	.2450	1.607	550.2
251	163.12	.44000	938.00	.3620-01	.2920-01	.4390-01	.9130	.1311-02	.1966-02	.2550	1.666	550.5
251	163.12	.44500	939.00	.3280-01	.2650-01	.3980-01	.9130	.1190-02	.1784-02	.2320	1.536	550.3
251	163.12	.45000	940.00	.3400-01	.2750-01	.4120-01	.9130	.1232-02	.1847-02	.2400	1.590	550.4
251	163.12	.50000	941.00	.3230-01	.2600-01	.3940-01	.9130	.1167-02	.1766-02	.2230	1.509	553.9
251	163.12	.60000	942.00	.3040-01	.2450-01	.3700-01	.9130	.1100-02	.1658-02	.2120	1.362	552.5
251	163.12	.70000	943.00	.2780-01	.2230-01	.3390-01	.9130	.9993-03	.1520-02	.1890	1.293	555.7
251	163.12	.80000	944.00	.2540-01	.2040-01	.3110-01	.9130	.9167-03	.1393-02	.1740	1.129	555.4
251	168.00	.35000	945.00	.3670-01	.2970-01	.4440-01	.9130	.1331-02	.1991-02	.2610	1.649	549.3
251	168.00	.36000	946.00	.3510-01	.2850-01	.4250-01	.9130	.1277-02	.1905-02	.2510	1.594	548.5
251	168.00	.37000	947.00	.3490-01	.2830-01	.4230-01	.9130	.1268-02	.1897-02	.2480	1.577	549.6
251	168.00	.37500	948.00	.3640-01	.2940-01	.4410-01	.9130	.1319-02	.1975-02	.2580	1.640	549.8
251	168.00	.38500	950.00	.2920-01	.2370-01	.3530-01	.9130	.1061-02	.1581-02	.2090	1.349	547.9
251	168.00	.39000	951.00	.3480-01	.2820-01	.4210-01	.9130	.1264-02	.1889-02	.2480	1.606	549.0
251	168.00	.39500	952.00	.3380-01	.2740-01	.4090-01	.9130	.1226-02	.1832-02	.2400	1.535	549.1
251	168.00	.40000	953.00	.3390-01	.2740-01	.4110-01	.9130	.1230-02	.1841-02	.2400	1.562	549.6
251	168.00	.40500	954.00	.3510-01	.2840-01	.4260-01	.9130	.1275-02	.1908-02	.2490	1.621	549.8
251	168.00	.41000	955.00	.3500-01	.2840-01	.4240-01	.9130	.1271-02	.1903-02	.2480	1.617	549.8
251	168.00	.41500	956.00	.3490-01	.2820-01	.4220-01	.9130	.1265-02	.1894-02	.2470	1.613	549.9
251	168.00	.42000	957.00	.3390-01	.2740-01	.4110-01	.9130	.1230-02	.1840-02	.2400	1.575	549.6
251	168.00	.42500	958.00	.3330-01	.2690-01	.4030-01	.9130	.1207-02	.1806-02	.2360	1.543	549.8
251	168.00	.43000	959.00	.3570-01	.2890-01	.4330-01	.9130	.1294-02	.1939-02	.2520	1.645	550.4
251	168.00	.44000	960.00	.3610-01	.2920-01	.4380-01	.9130	.1309-02	.1962-02	.2550	1.671	550.2
251	168.00	.44500	961.00	.3550-01	.2870-01	.4310-01	.9130	.1287-02	.1931-02	.2500	1.638	550.7
251	168.00	.45500	963.00	.3500-01	.2830-01	.4240-01	.9130	.1268-02	.1902-02	.2460	1.624	550.7
251	168.00	.46000	964.00	.3300-01	.2670-01	.4010-01	.9130	.1195-02	.1797-02	.2310	1.534	551.4
251	168.00	.47000	965.00	.3350-01	.2710-01	.4070-01	.9130	.1213-02	.1825-02	.2350	1.559	551.7
251	168.00	.48000	966.00	.3300-01	.2660-01	.4010-01	.9130	.1191-02	.1798-02	.2290	1.534	552.8
251	168.00	.49000	967.00	.3070-01	.2480-01	.3720-01	.9130	.1110-02	.1668-02	.2150	1.443	551.2
251	168.00	.85000	968.00	.2680-01	.2160-01	.3270-01	.9130	.9663-03	.1466-02	.1840	1.186	555.0
251	168.00	.86000	969.00	.2540-01	.2040-01	.3100-01	.9130	.9131-03	.1389-02	.1730	1.120	555.7
251	168.00	.87000	970.00	.2620-01	.2100-01	.3200-01	.9130	.9425-03	.1435-02	.1780	1.157	556.1
251	168.00	.88000	971.00	.2570-01	.2060-01	.3150-01	.9130	.9243-03	.1413-02	.1730	1.127	557.6
251	168.00	.89000	972.00	.2640-01	.2110-01	.3240-01	.9130	.9473-03	.1454-02	.1760	1.163	559.0
251	168.00	.90000	973.00	.1980-01	.1580-01	.2420-01	.9130	.7094-03	.1086-02	.1320	.8960	558.3

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F14)

RUN NUMBER	PHI	X/L	T C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
251	168.00	.91000	974.00	.9800-02	.7900-02	.1210-01	.9130	.3533-03	.5409-03	.6600-01	.4790	558.2
251	168.00	.92600	975.00	.1640-01	.1310-01	.2010-01	.9130	.5876-03	.9029-03	.1090	.7850	559.4
251	168.00	.95000	976.00	.2140-01	.1710-01	.2620-01	.9130	.7663-03	.1174-02	.1430	1.023	558.5
251	180.00	.20000-01	982.00	.5930-01	.4810-01	.5650-01	.9608	.2158-02	.2531-02	.4270	2.971	547.0
251	180.00	.25000-01	983.00	.2061	.1645	.1973	.9588	.7373-02	.8844-02	1.361	9.340	560.4
251	180.00	.30000-01	984.00	.5566	.4223	.5324	.9571	.1893-01	.2387-01	2.922	19.63	590.7
48	180.00	.40000-01	600.00	.5113	.3970	.4953	.9556	.1775-01	.2214-01	2.949	18.68	576.5
48	180.00	.50000-01	601.00	.4514	.3546	.4464	.9521	.1585-01	.1996-01	2 744	17.49	569.6
48	180.00	.60000-01	602.00	.4537	.3433	.4577	.9486	.1535-01	.2046-01	2.342	15.27	590.1
48	180.00	.70000-01	603.00	.4608	.3454	.4756	.9453	.1544-01	.2127-01	2.288	15.25	594.5
48	180.00	.80000-01	604.00	.3130	.2435	.3276	.9422	.1089-01	.1465-01	1.821	11.68	575.4
48	180.00	.10000+00	605.00	.2001	.1581	.2159	.9363	.7069-02	.9653-02	1.250	8.886	565.8
48	180.00	.15000	606.00	.1115	.8880-01	.1286	.9240	.3971-02	.5750-02	.7240	5.229	560.3
48	180.00	.20000	607.00	.5580-01	.4510-01	.6660-01	.9158	.2016-02	.2976-02	.3910	2.550	548.7
48	180.00	.21000	608.00	.4610-01	.3740-01	.5520-01	.9147	.1671-02	.2470-02	.3280	2.263	546.7
48	180.00	.22000	609.00	.3720-01	.3020-01	.4480-01	.9139	.1350-02	.2003-02	.2650	1.973	546.3
48	180.00	.30000	610.00	.3390-01	.2750-01	.4090-01	.9130	.1229-02	.1828-02	.2430	1.663	545.3
48	180.00	.35000	611.00	.3490-01	.2840-01	.4210-01	.9130	.1268-02	.1881-02	.2510	1.676	544.4
48	180.00	.36000	612.00	.3380-01	.2750-01	.4070-01	.9130	.1227-02	.1820-02	.2440	1.640	544.2
48	180.00	.37000	613.00	.3680-01	.3000-01	.4440-01	.9130	.1340-02	.1985-02	.2660	1.792	543.9
48	180.00	.37500	614.00	.3360-01	.2730-01	.4050-01	.9130	.1221-02	.1810-02	.2420	1.631	544.2
48	180.00	.38000	615.00	.3020-01	.2460-01	.3650-01	.9130	.1099-02	.1630-02	.2180	1.466	544.4
48	180.00	.38500	616.00	.3330-01	.2710-01	.4010-01	.9130	.1210-02	.1792-02	.2400	1.618	543.9
48	180.00	.39000	617.00	.3450-01	.2800-01	.4150-01	.9130	.1254-02	.1857-02	.2490	1.674	543.7
48	180.00	.39500	618.00	.3480-01	.2830-01	.4190-01	.9130	.1264-02	.1872-02	.2520	1.699	543.6
48	180.00	.40000	619.00	.3240-01	.2630-01	.3900-01	.9130	.1177-02	.1743-02	.2340	1.573	543.6
48	180.00	.40500	620.00	.3480-01	.2830-01	.4200-01	.9130	.1267-02	.1876-02	.2520	1.695	543.9
48	180.00	.41000	621.00	.3610-01	.2940-01	.4350-01	.9130	.1314-02	.1947-02	.2610	1.757	544.0
48	180.00	.41500	622.00	.3700-01	.3010-01	.4460-01	.9130	.1346-02	.1995-02	.2680	1.795	544.0
48	180.00	.42500	624.00	.3410-01	.2770-01	.4110-01	.9130	.1238-02	.1837-02	.2450	1.643	544.7
48	180.00	.43000	625.00	.2830-01	.2300-01	.3420-01	.9130	.1030-02	.1529-02	.2040	1.372	544.7
48	180.00	.44000	626.00	.3440-01	.2790-01	.4140-01	.9130	.1249-02	.1852-02	.2490	1.666	544.4
48	180.00	.44500	627.00	.3080-01	.2500-01	.3710-01	.9130	.1118-02	.1658-02	.2220	1.506	544.3
48	180.00	.45000	628.00	.3020-01	.2450-01	.3640-01	.9130	.1096-02	.1626-02	.2170	1.476	544.4
48	180.00	.45500	629.00	.2960-01	.2410-01	.3570-01	.9130	.1077-02	.1598-02	.2140	1.474	544.2
48	180.00	.46000	630.00	.3240-01	.2630-01	.3900-01	.9130	.1178-02	.1745-02	.2340	1.576	544.0
48	180.00	.47000	631.00	.2930-01	.2380-01	.3530-01	.9130	.1063-02	.1578-02	.2110	1.417	544.6
48	180.00	.49000	633.00	.2990-01	.2430-01	.3600-01	.9130	.1086-02	.1611-02	.2150	1.470	544.4
48	180.00	.50000	634.00	.2820-01	.2290-01	.3390-01	.9130	.1024-02	.1518-02	.2030	1.425	544.1
48	180.00	.55000	635.00	.2620-01	.2130-01	.3160-01	.9130	.9526-03	.1414-02	.1890	1.255	544.5
48	180.00	.60000	636.00	.3050-01	.2480-01	.3670-01	.9130	.1107-02	.1641-02	.2200	1.418	544.3
48	180.00	.65000	637.00	.3030-01	.2460-01	.3650-01	.9130	.1101-02	.1633-02	.2180	1.414	544.3
48	180.00	.70000	638.00	.2850-01	.2310-01	.3440-01	.9130	.1034-02	.1539-02	.2040	1.394	545.9

(RV7F14)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
48	180.00	.75000	639.00	.3340-01	.2710-01	.4030-01	.9130	.1212-02	.1804-02	.2390	1.540	545.7
48	180.00	.80000	640.00	.2790-01	.2260-01	.3370-01	.9130	.1013-02	.1506-02	.2000	1.253	545.4
48	180.00	.85000	641.00	.2400-01	.1950-01	.2910-01	.9130	.8720-03	.1299-02	.1710	1.084	546.1
48	180.00	.86000	642.00	.3010-01	.2440-01	.3640-01	.9130	.1089-02	.1626-02	.2130	1.366	547.1
48	180.00	.87000	643.00	.2440-01	.1970-01	.2950-01	.9130	.8812-03	.1319-02	.1710	1.105	548.1
48	180.00	.89000	645.00	.2920-01	.2360-01	.3530-01	.9130	.1055-02	.1580-02	.2050	1.348	548.3
48	180.00	.90000	646.00	.2070-01	.1680-01	.2500-01	.9130	.7490-03	.1119-02	.1460	.9840	547.2
48	180.00	.95000	649.00	.1960-01	.1580-01	.2380-01	.9130	.7056-03	.1063-02	.1360	.9780	550.5
48	191.25	.35000	650.00	.3150-01	.2560-01	.3800-01	.9130	.1143-02	.1698-02	.2260	1.522	544.9
48	191.25	.36000	651.00	.3520-01	.2860-01	.4250-01	.9130	.1280-02	.1901-02	.2530	1.708	544.3
48	191.25	.37000	652.00	.3180-01	.2580-01	.3840-01	.9130	.1156-02	.1715-02	.2280	1.539	544.7
48	191.25	.37500	653.00	.3360-01	.2730-01	.4060-01	.9130	.1222-02	.1814-02	.2420	1.631	544.9
48	191.25	.38000	654.00	.3350-01	.2720-01	.4030-01	.9130	.1216-02	.1804-02	.2410	1.626	544.5
48	191.25	.38500	655.00	.3290-01	.2670-01	.3960-01	.9130	.1194-02	.1771-02	.2370	1.597	544.5
48	191.25	.39000	656.00	.3390-01	.2760-01	.4090-01	.9130	.1232-02	.1829-02	.2440	1.648	544.5
48	191.25	.39500	657.00	.3880-01	.3150-01	.4670-01	.9130	.1410-02	.2090-02	.2800	1.891	544.0
48	191.25	.40000	658.00	.3600-01	.2930-01	.4340-01	.9130	.1309-02	.1940-02	.2600	1.760	544.1
48	191.25	.40500	659.00	.3060-01	.2490-01	.3690-01	.9130	.1112-02	.1648-02	.2210	1.496	544.0
48	191.25	.41000	660.00	.3370-01	.2740-01	.4060-01	.9130	.1225-02	.1817-02	.2430	1.642	544.2
48	191.25	.41500	661.00	.3420-01	.2780-01	.4120-01	.9130	.1243-02	.1841-02	.2470	1.662	543.9
48	191.25	.42000	662.00	.3490-01	.2840-01	.4210 01	.9130	.1268-02	.1882-02	.2510	1.695	544.6
48	191.25	.42500	663.00	.3480-01	.2830-01	.4190-01	.9130	.1264-02	.1875-02	.2510	1.698	544.3
48	191.25	.43000	664.00	.3430-01	.2790-01	.4130-01	.9130	.1246-02	.1848-02	.2470	1.687	544.4
48	191.25	.44000	665.00	.3270-01	.2660-01	.3940-01	.9130	.1188-02	.1763-02	.2350	1.598	544.6
48	191.25	.45000	666.00	.3600-01	.2920-01	.4340-01	.9130	.1306-02	.1939-02	.2590	1.756	544.7
48	191.25	.45500	667.00	.3340-01	.2720-01	.4030-01	.9130	.1215-02	.1802-02	.2410	1.636	544.4
48	191.25	.46000	668.00	.3210-01	.2610-01	.3870-01	.9130	.1165-02	.1729-02	.2310	1.574	544.4
48	191.25	.47000	669.00	.3330-01	.2710-01	.4010-01	.9130	.1210-02	.1795-02	.2400	1.639	544.4
48	191.25	.48000	670.00	.4250-01	.3450-01	.5120-01	.9130	.1545-02	.2291-02	.3060	2.093	544.4
48	191.25	.49000	671.00	.3480-01	.2830-01	.4210-01	.9130	.1265-02	.1881-02	.2490	1.699	545.4
48	191.25	.50000	672.00	.3240-01	.2630-01	.3900-01	.9130	.1175-02	.1746-02	.2330	1.618	544.9
48	191.25	.60000	673.00	.2450-01	.1990-01	.2960-01	.9130	.8902-03	.1322-02	.1760	1.131	544.7
48	191.25	.70000	674.00	.3140-01	.2540-01	.3790-01	.9130	.1136-02	.1696-02	.2220	1.512	547.0
48	191.25	.85000	676.00	.3020-01	.2450-01	.3650-01	.9130	.1095-02	.1632-02	.2150	1.360	546.2
48	191.25	.86000	677.00	.3030-01	.2450-01	.3660-01	.9130	.1097-02	.1638-02	.2150	1.372	547.0
48	191.25	.87000	678.00	.2990-01	.2420-01	.3620-01	.9130	.1082-02	.1617-02	.2110	1.362	547.3
48	191.25	.88000	679.00	.2950-01	.2390-01	.3580-01	.9130	.1069-02	.1599-02	.2080	1.357	547.9
48	191.25	.89000	680.00	.2880-01	.2330-01	.3490-01	.9130	.1042-02	.1562-02	.2020	1.340	548.4
48	191.25	.90000	681.00	.2430-01	.1970-01	.2950-01	.9130	.8787-03	.1317-02	.1710	1.149	548.5
48	191.25	.91000	682.00	.8700-02	.7000-02	.1050-01	.9130	.3141-03	.4691-03	.6100-01	.4480	547.1
48	191.25	.92600	683.00	.2120-01	.1710-01	.2570-01	.9130	.7666-03	.1149-02	.1490	1.087	548.7
48	191.25	.95000	684.00	.2130-01	.1720-01	.2580-01	.9130	.7680-03	.1155-02	.1480	1.088	549.9
48	197.00	.33000	685.00	.3610-01	.2930-01	.4350-01	.9130	.1310-02	.1945-02	.2530	1.743	544.9

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F14)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
48	197.00	.34000	686.00	.3740-01	.3040-01	.4520-01	.9130	.1359-02	.2020-02	.2690	1.807	545.1
48	197.00	.35000	687.00	.3330-01	.2700-01	.4010-01	.9130	.1208-02	.1794-02	.2390	1.607	544.9
49	197.00	.36000	688.00	.3470-01	.2820-01	.4190-01	.9130	.1261-02	.1872-02	.2500	1.679	544.7
48	197.00	.37000	689.00	.3400-01	.2770-01	.4110-01	.9130	.1237-02	.1836-02	.2450	1.648	544.7
48	197.00	.37500	690.00	.2810-01	.2280-01	.3380-01	.9130	.1019-02	.1513-02	.2020	1.362	544.7
48	197.00	.50000	691.00	.3170-01	.2580-01	.3830-01	.9130	.1152-02	.1711-02	.2280	1.535	544.8
48	197.00	.60000	692.00	.3120-01	.2530-01	.3760-01	.9130	.1133-02	.1681-02	.2250	1.450	544.4
48	197.00	.70000	693.00	.2610-01	.2120-01	.3160-01	.9130	.9465-03	.1411-02	.1860	1.261	546.3
48	197.00	.80000	694.00	.2640-01	.2140-01	.3190-01	.9130	.9569-03	.1424-02	.1880	1.185	545.8
48	197.00	.87000	695.00	.3240-01	.2640-01	.3950-01	.9130	.1182-02	.1767-02	.2310	1.471	547.5
48	197.00	.92600	696.00	.1540-01	.1280-01	.1920-01	.9130	.5710-03	.8580-03	.1100	.8060	549.5
251	209.80	.15000-01	697.00	.2561	.1852	.3071	.9283	.1024-01	.1698-01	.0000	.0000	539.9
49	209.80	.30000-01	698.00	.5565	.4335	.5348	.9572	.1940-01	.2393-01	3.253	21.84	573.6
49	209.80	.50000-01	699.00	.4910	.3808	.4850	.9521	.1749-01	.2174-01	3.176	20.06	559.7
49	209.80	.70000-01	700.00	.3636	.2867	.3729	.9454	.1283-01	.1668-01	2.245	15.04	566.3
49	209.80	.10000+00	701.00	.2505	.1999	.2692	.9363	.8946-02	.1204-01	1.642	10.41	557.8
49	209.80	.15000	702.00	.1127	.9100-01	.1286	.9240	.4069-02	.5755-02	.7820	5.591	549.1
49	209.80	.20000	703.00	.5660-01	.4620-01	.6680-01	.9158	.2069-02	.2989-02	.4190	2.806	538.6
49	209.80	.30000	704.00	.3160-01	.2590-01	.3780-01	.9130	.1160-02	.1691-02	.2390	1.701	535.7
49	209.80	.35000	705.00	.3670-01	.3010-01	.4380-01	.9130	.1347-02	.1961-02	.2770	1.910	535.4
49	209.80	.37500	706.00	.3280-01	.2690-01	.3910-01	.9130	.1204-02	.1749-02	.2490	1.721	534.5
49	209.80	.50000	707.00	.3190-01	.2620-01	.3810-01	.9130	.1173-02	.1704-02	.2430	1.671	534.5
49	209.80	.60000	708.00	.2910-01	.2390-01	.3470-01	.9130	.1069-02	.1554-02	.2210	1.417	534.7
49	209.80	.70000	709.00	.3000-01	.2460-01	.3580-01	.9130	.1102-02	.1603-02	.2280	1.460	534.8
49	209.80	.80000	710.00	.3040-01	.2500-01	.3630-01	.9130	.1118-02	.1624-02	.2310	1.451	534.4
49	209.80	.87000	711.00	.3090-01	.2530-01	.3680-01	.9130	.1133-02	.1648-02	.2340	1.486	535.1
49	209.80	.92600	712.00	.1530-01	.1260-01	.1830-01	.9130	.5633-03	.8181-03	.1170	.8540	534.2
49	217.70	.30000-01	714.00	.5470	.4252	.5255	.9571	.1903-01	.2351-01	3.167	21.25	574.9
49	217.70	.50000-01	715.00	.4735	.3771	.4685	.9521	.1687-01	.2096-01	3.071	19.91	559.4
49	217.70	.70000-01	716.00	.4068	.3172	.4178	.9454	.1419-01	.1869-01	2.387	16.07	573.2
49	217.70	.10000+00	717.00	.2286	.1831	.2453	.9363	.8191-02	.1098-01	1.525	9.847	565.2
49	217.70	.15000	718.00	.1116	.9010-01	.1274	.9240	.4032-02	.5698-02	.7770	5.679	548.7
49	217.70	.20000	719.00	.5690-01	.4660-01	.6710-01	.9158	.2084-02	.3004-02	.4250	2.880	537.4
49	217.70	.30000	720.00	.3030-01	.2490-01	.3620-01	.9130	.1112-02	.1619-02	.2290	1.647	535.5
49	217.70	.35000	721.00	.3520-01	.2890-01	.4210-01	.9130	.1293-02	.1882-02	.2670	1.859	535.2
49	217.70	.37500	722.00	.3430-01	.2820-01	.4100-01	.9130	.1261-02	.1833-02	.2600	1.816	534.8
49	217.70	.50000	723.00	.3670-01	.3010-01	.4370-01	.9130	.1348-02	.1956-02	.2800	1.948	533.6
49	217.70	.60000	724.00	.2740-01	.2250-01	.3270-01	.9130	.1005-02	.1461-02	.2070	1.334	534.9
49	217.70	.70000	725.00	.3160-01	.2590-01	.3760-01	.9130	.1160-02	.1683-02	.2410	1.539	533.9
49	217.70	.80000	726.00	.3010-01	.2470-01	.3590-01	.9130	.1105-02	.1604-02	.2290	1.448	534.1
49	217.70	.87000	727.00	.3200-01	.2630-01	.3820-01	.9130	.1177-02	.1709-02	.2440	1.568	534.3
49	217.70	.92600	728.00	.1560-01	.1280-01	.1860-01	.9130	.5723-03	.8305-03	.1190	.8690	533.9

DATE 03 JUN 76

AEDC V41A-A4A (1H-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F15)

1H41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = 5.000 BETA = .0000 GRIT = 3.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
301	2.500	4.835	4.990	.0000	.0000	31.90	1.864	659.0	292.9	8.157	2097.	.5340-03
302	2.500	4.836	5.020	.0000	.0000	31.90	1.865	659.0	293.0	8.160	2097.	.5341-03
303	2.500	4.846	5.000	.0000	.0000	32.00	1.870	660.0	293.1	8.182	2097.	.5353-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
301	.2316-06	.6238-01	.6978-02
302	.2316-06	.6240-01	.6977-02
303	.2317-06	.6248-01	.6970-02

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
302	.00000	.30000-02	730.00	.5773	.3308	.3721	.9870	.2064-01	.2321-01	1.593	10.75	582.1
302	.00000	.10300-01	731.00	.4071	.2532	.4426	.9434	.1580-01	.2761-01	1.378	9.369	572.1
302	.00000	.15000-01	732.00	.4523	.2785	.5063	.9434	.1737-01	.3159-01	1.440	9.655	576.4
302	.00000	.20000-01	733.00	.6808	.3688	.4187	.9870	.2301-01	.2612-01	1.655	11.14	587.3
302	.00000	.25000-01	734.00	1.406	.5309	.6334	.9870	.3312-01	.3952-01	1.754	11.59	605.3
302	.00000	.30000-01	735.00	1.248	.5346	.6424	.9853	.3335-01	.4009-01	1.923	12.81	601.6
302	.00000	.40000-01	737.00	.7529	.4201	.4909	.9837	.2621-01	.3063-01	1.955	12.51	594.7
302	.00000	.45000-01	738.00	.8346	.4528	.5433	.9818	.2825-01	.3390-01	2.036	13.21	597.2
302	.00000	.60000-01	739.00	.7594	.3627	.4815	.9764	.2263-01	.3004-01	1.928	9.663	596.2
302	.00000	.70000-01	740.00	.7815	.3600	.5080	.9730	.2246-01	.3170-01	1.372	9.046	598.1
302	.00000	.80000-01	741.00	.6359	.3007	.4412	.9698	.1876-01	.2753-01	1.173	8.318	596.7
302	.00000	.90000-01	742.00	.4337	.2549	.3657	.9639	.1590-01	.2282-01	1.247	8.189	580.8
302	.00000	.10000+00	743.00	.3656	.1938	.3150	.9577	.1209-01	.1965-01	.8760	6.241	585.8
302	.00000	.12500	744.00	.3168	.1836	.3052	.9526	.1146-01	.1904-01	.8080	6.141	580.8
302	.00000	.15000	745.00	.2309	.1393	.2348	.9487	.8693-02	.1465-01	.7230	5.353	576.1
302	.00000	.17500	746.00	.1820	.1156	.1911	.9459	.7212-02	.1192-01	.6510	4.609	568.9
302	.00000	.20000	747.00	.1742	.1112	.1865	.9447	.6939-02	.1157-01	.6320	4.335	568.1
302	.00000	.21500	748.00	.1519	.9620-01	.1636	.9438	.6003-02	.1021-01	.5400	3.945	569.3
302	.00000	.23000										

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F15)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
302	.00000	.24000	749.00	.1307	.8340-01	.1413	.9434	.5202-02	.8816-02	.4740	3.533	568.2
302	.00000	.25000	750.00	.7720-01	.5040-01	.8300-01	.9434	.3144-02	.5179-02	.2980	2.393	564.3
302	.00000	.30000	751.00	.1338	.8680-01	.1441	.9434	.5416-02	.8991-02	.5080	3.304	565.4
302	.00000	.40000	753.00	.1405	.9180-01	.1510	.9434	.5730-02	.9421-02	.5460	3.478	564.0
302	.00000	.50000	754.00	.1276	.8100-01	.1380	.9434	.5053-02	.8612-02	.4560	2.951	569.0
302	.00000	.60000	755.00	.1349	.8460-01	.1464	.9434	.5277-02	.9136-02	.4660	2.952	570.9
302	.00000	.70000	756.00	.1230	.7420-01	.1347	.9434	.4627-02	.8402-02	.3840	2.499	576.2
302	.00000	.80000	757.00	.1226	.7450-01	.1340	.9434	.4649-02	.8363-02	.3910	2.414	575.2
302	.00000	.90000	758.00	.7160-01	.4330-01	.7840-01	.9434	.2699-02	.4891-02	.2250	1.432	576.0
302	55.000	.22000	759.00	.1340	.8680-01	.1439	.9437	.5418-02	.8976-02	.5070	3.740	565.6
302	55.000	.25000	760.00	.7740-01	.5110-01	.8320-01	.9431	.3188-02	.5194-02	.3100	2.407	562.1
302	55.000	.27000	761.00	.9830-01	.6400-01	.1061	.9431	.3994-02	.6621-02	.3770	2.783	564.7
302	55.000	.30000	762.00	.1192	.7900-01	.1282	.9431	.4928-02	.8002-02	.4810	2.871	561.6
302	55.000	.32000	763.00	.1276	.8500-01	.1370	.9431	.5304-02	.8548-02	.5240	3.030	560.4
302	55.000	.34000	764.00	.1272	.8480-01	.1366	.9431	.5291-02	.8520-02	.5230	3.084	560.3
302	55.000	.36000	765.00	.1292	.8640-01	.1387	.9431	.5392-02	.8655-02	.5360	3.204	559.9
302	55.000	.38000	766.00	.1316	.8840-01	.1410	.9431	.5514-02	.8800-02	.5540	3.346	558.8
302	55.000	.40000	767.00	.1294	.8660-01	.1389	.9431	.5404-02	.8665-02	.5380	3.344	559.6
302	67.500	.23000	768.00	.1318	.8580-01	.1422	.9432	.5353-02	.8874-02	.5050	3.725	564.9
302	67.500	.25000	769.00	.7620-01	.5050-01	.8200-01	.9430	.3153-02	.5116-02	.3090	2.383	561.4
302	67.500	.27000	770.00	.1001	.6560-01	.1079	.9430	.4096-02	.6735-02	.3920	2.838	563.4
302	67.500	.29000	771.00	.7950-01	.5320-01	.8540-01	.9430	.3317-02	.5328-02	.3300	2.031	559.8
302	67.500	.30000	772.00	.1103	.7320-01	.1187	.9430	.4565-02	.7404-02	.4470	2.711	561.4
302	67.500	.31000	773.00	.1215	.8060-01	.1307	.9430	.5029-02	.8155-02	.4920	2.964	561.3
302	67.500	.32000	774.00	.1182	.7880-01	.1271	.9430	.4919-02	.7929-02	.4860	2.905	560.4
302	67.500	.32500	775.00	.1138	.7620-01	.1222	.9430	.4755-02	.7627-02	.4740	2.840	559.5
302	67.500	.33000	776.00	.1206	.8070-01	.1296	.9430	.5035-02	.8084-02	.5010	3.011	559.7
302	67.500	.33500	777.00	.1157	.7740-01	.1242	.9430	.4828-02	.7752-02	.4810	2.887	559.7
302	67.500	.34000	778.00	.1198	.8030-01	.1286	.9430	.5008-02	.8025-02	.5000	3.004	559.4
302	67.500	.34500	779.00	.1214	.8130-01	.1304	.9430	.5073-02	.8133-02	.5060	3.049	559.5
302	67.500	.35000	780.00	.1165	.7820-01	.1250	.9430	.4881-02	.7798-02	.4900	2.960	558.9
302	67.500	.36000	782.00	.1165	.7820-01	.1250	.9430	.4878-02	.7800-02	.4890	2.962	559.0
302	67.500	.36500	783.00	.1190	.8010-01	.1276	.9430	.4999-02	.7960-02	.5040	3.049	558.3
302	67.500	.37000	784.00	.1215	.8200-01	.1302	.9430	.5114-02	.8127-02	.5180	3.147	558.0
302	67.500	.37500	785.00	.1085	.7310-01	.1164	.9430	.4563-02	.7260-02	.4610	2.825	558.2
302	67.500	.38000	786.00	.1148	.7720-01	.1231	.9430	.4817-02	.7684-02	.4850	2.978	558.6
302	67.500	.39000	787.00	.1185	.7950-01	.1272	.9430	.4962-02	.7938-02	.4970	3.061	559.1
302	67.500	.40000	788.00	.9660-01	.6470-01	.1038	.9430	.4038-02	.6474-02	.4030	2.502	559.5
302	67.500	.50000	789.00	.1120	.7300-01	.1210	.9430	.4556-02	.7550-02	.4310	2.741	564.6
302	67.500	.60000	790.00	.1224	.8040-01	.1320	.9430	.5015-02	.8238-02	.4810	3.131	563.3
302	67.500	.70000	791.00	.1140	.7220-01	.1240	.9430	.4502-02	.7739-02	.4040	2.821	569.5
302	67.500	.80000	792.00	.1161	.7560-01	.1254	.9430	.4720-02	.7827-02	.4460	2.780	564.7
302	67.500	.90000	793.00	.8340-01	.5330-01	.9050-01	.9430	.3326-02	.5646-02	.3040	1.939	567.9

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F15)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
302	78.000	.27000	794.00	.9980-01	.6560-01	.1076	.9430	.4092-02	.6715-02	.3940	2.784	563.1
302	78.000	.29000	795.00	.8150-01	.5480-01	.8750-01	.9430	.3418-02	.5459-02	.3430	2.104	558.8
303	78.000	.30000	796.00	.1104	.7350-01	.1187	.9430	.4595-02	.7417-02	.4540	2.732	560.7
303	78.000	.31000	797.00	.1131	.7540-01	.1216	.9430	.4713-02	.7595-02	.4670	2.811	560.5
303	78.000	.32000	798.00	.1137	.7580-01	.1222	.9430	.4738-02	.7635-02	.4690	2.811	560.5
303	78.000	.32500	799.00	.1153	.7730-01	.1239	.9430	.4830-02	.7739-02	.4830	2.901	559.5
303	78.000	.33000	800.00	.1181	.7880-01	.1269	.9430	.4923-02	.7930-02	.4880	2.930	560.4
303	78.000	.33500	801.00	.1154	.7740-01	.1239	.9430	.4833-02	.7744-02	.4830	2.903	559.5
303	78.000	.34000	802.00	.1133	.7600-01	.1216	.9430	.4749-02	.7601-02	.4760	2.659	559.3
303	78.000	.34500	803.00	.1117	.7510-01	.1198	.9430	.4690-02	.7487-02	.4720	2.843	558.9
303	78.000	.35000	804.00	.1132	.7600-01	.1216	.9430	.4747-02	.7597-02	.4760	2.865	559.3
303	78.000	.35500	805.00	.1149	.7730-01	.1232	.9430	.4828-02	.7700-02	.4870	2.932	556.7
303	78.000	.36000	806.00	.1078	.7260-01	.1157	.9430	.4533-02	.7229-02	.4570	2.760	558.7
303	78.000	.36500	807.00	.1311	.8830-01	.1407	.9430	.5514-02	.8791-02	.5560	3.369	558.7
303	78.000	.37000	808.00	.1032	.6930-01	.1107	.9430	.4332-02	.6919-02	.4350	2.645	559.0
303	78.000	.37500	809.00	.1147	.7700-01	.1231	.9430	.4813-02	.7689-02	.4840	2.937	559.1
303	78.000	.38000	810.00	.1091	.7340-01	.1171	.9430	.4586-02	.7315-02	.4620	2.822	558.8
303	78.000	.39000	811.00	.1163	.7770-01	.1249	.9430	.4855-02	.7805-02	.4830	2.955	560.1
303	78.000	.40000	812.00	.8210-01	.5620-01	.8770-01	.9430	.3512-02	.5479-02	.3680	2.256	554.9
303	90.000	.20000	813.00	.1700-01	.1200-01	.1800-01	.9430	.7498-03	.1127-02	.8400-01	.6110	547.4
303	90.000	.24000	814.00	.1009	.6620-01	.1089	.9430	.4134-02	.6802-02	.3950	3.178	563.7
303	90.000	.27000	816.00	.9680-01	.6470-01	.1041	.9430	.4040-02	.6504-02	.4010	2.830	560.3
303	90.000	.29000	817.00	.8590-01	.5770-01	.9220-01	.9430	.3608-02	.5759-02	.3630	2.243	558.9
303	90.000	.30000	818.00	.1296	.8640-01	.1394	.9430	.5395-02	.8712-02	.5330	3.234	560.8
303	90.000	.31000	819.00	.1128	.7540-01	.1212	.9430	.4713-02	.7575-02	.4690	2.824	560.0
303	90.000	.32000	820.00	.1096	.7370-01	.1176	.9430	.4605-02	.7350-02	.4640	2.786	559.8
303	90.000	.32500	821.00	.1096	.7350-01	.1176	.9430	.4594-02	.7350-02	.4610	2.760	559.3
303	90.000	.33000	822.00	.1023	.6910-01	.1096	.9430	.4319-02	.6849-02	.4400	2.643	557.8
303	90.000	.34000	824.00	.1103	.7490-01	.1188	.9430	.4680-02	.7422-02	.4760	2.855	557.8
303	90.000	.34500	825.00	.1093	.7420-01	.1171	.9430	.4633-02	.7314-02	.4750	2.858	557.8
303	90.000	.35000	826.00	.1080	.7280-01	.1159	.9430	.4549-02	.7242-02	.4500	2.765	558.4
303	90.000	.36000	828.00	.1088	.7320-01	.1168	.9430	.4574-02	.7298-02	.4610	2.780	558.8
303	90.000	.36500	829.00	.1077	.7250-01	.1156	.9430	.4530-02	.7223-02	.4570	2.744	558.7
303	90.000	.37000	830.00	.1092	.7400-01	.1170	.9430	.4621-02	.7310-02	.4720	2.847	557.3
303	90.000	.37500	831.00	.1095	.7390-01	.1175	.9430	.4620-02	.7362-02	.4690	2.841	558.1
303	90.000	.38000	832.00	.1053	.7120-01	.1129	.9430	.4447-02	.7054-02	.4520	2.741	557.8
303	90.000	.39000	833.00	.1068	.7190-01	.1146	.9430	.4491-02	.7161-02	.4530	2.775	559.7
303	90.000	.40000	834.00	.1082	.7280-01	.1161	.9430	.4548-02	.7253-02	.4590	2.817	558.7
303	90.000	.50000	835.00	.1116	.7330-01	.1204	.9430	.4582-02	.7524-02	.4410	2.761	563.4
303	90.000	.60000	836.00	.1059	.7030-01	.1140	.9430	.4390-02	.7120-02	.4300	2.645	561.5
303	90.000	.70000	837.00	.1002	.6510-01	.1083	.9430	.4070-02	.6767-02	.3840	2.678	565.2
303	90.000	.80000	838.00	.1103	.7320-01	.1167	.9430	.4572-02	.7416-02	.4480	2.765	561.5
303	90.000	.90000	839.00	.8590-01	.5690-01	.9250-01	.9430	.3555-02	.5779-02	.3470	2.204	561.8

(IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F15)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
303	112.50	.23000	840.00	.9620-01	.6410-01	.1035	.9430	.4003-02	.6468-02	.3950	3.159	560.9
303	112.50	.25000	841.00	.5720-01	.3860-01	.6130-01	.9430	.2410-02	.3831-02	.2440	1.883	558.2
303	112.50	.30000	843.00	.9390-01	.6310-01	.1008	.9430	.3945-02	.6299-02	.3970	2.346	559.0
303	112.50	.33000	844.00	.1009	.6800-01	.1082	.9430	.4248-02	.6759-02	.4300	2.577	558.3
303	112.50	.35000	845.00	.1007	.6820-01	.1079	.9430	.4261-02	.6740-02	.4350	2.654	557.3
303	112.50	.37000	846.00	.1010	.6830-01	.1082	.9430	.4264-02	.6761-02	.4340	2.661	557.7
303	112.50	.40000	847.00	.9900-01	.6730-01	.1060	.9430	.4208-02	.6624-02	.4340	2.690	556.4
303	112.50	.45000	848.00	.1022	.6930-01	.1094	.9430	.4332-02	.6838-02	.4450	2.779	556.9
303	112.50	.50000	849.00	.9620-01	.6400-01	.1035	.9430	.3998-02	.6466-02	.3940	2.515	561.0
303	112.50	.55000	850.00	.7270-01	.4870-01	.7800-01	.9430	.3044-02	.4876-02	.3050	2.023	559.4
303	112.50	.60000	851.00	.1018	.6800-01	.1094	.9430	.4251-02	.6935-02	.4230	2.814	560.1
303	112.50	.65000	852.00	.1075	.7160-01	.1156	.9430	.4473-02	.7223-02	.4420	2.984	560.8
303	112.50	.70000	853.00	.9760-01	.6440-01	.1052	.9430	.4021-02	.6572-02	.3890	2.711	562.7
303	112.50	.75000	854.00	.7790-01	.5160-01	.8390-01	.9430	.3225-02	.5240-02	.3150	2.030	561.8
303	112.50	.80000	855.00	.9780-01	.6520-01	.1051	.9430	.4075-02	.6569-02	.4040	2.607	560.5
303	112.50	.90000	856.00	.8000-01	.5330-01	.8610-01	.9430	.3329-02	.5378-02	.3290	2.116	560.8
303	125.40	.84000	857.00	.8300-01	.5570-01	.8910-01	.9430	.3479-02	.5570-02	.3490	2.140	559.4
303	125.40	.85000	858.00	.9300-01	.6220-01	.9990-01	.9430	.3885-02	.6242-02	.3870	2.388	559.9
303	125.40	.86000	859.00	.8920-01	.5960-01	.9590-01	.9430	.3725-02	.5992-02	.3700	2.304	560.2
303	125.40	.87000	860.00	.8360-01	.5590-01	.8980-01	.9430	.3494-02	.5611-02	.3480	2.173	559.9
303	125.40	.88000	861.00	.8810-01	.5850-01	.9470-01	.9430	.3658-02	.5919-02	.3600	2.246	561.1
303	125.40	.89000	862.00	.9110-01	.6070-01	.9790-01	.9430	.3795-02	.6119-02	.3760	2.358	560.5
303	125.40	.90000	863.00	.8280-01	.5530-01	.8900-01	.9430	.3458-02	.5563-02	.3440	2.169	560.2
303	125.40	.91000	864.00	.5090-01	.3450-01	.5460-01	.9430	.2155-02	.3409-02	.2200	1.592	557.3
303	125.40	.92600	865.00	.5470-01	.3620-01	.5900-01	.9430	.2259-02	.3686-02	.2190	1.577	562.4
303	129.30	.80000	866.00	.9100-01	.6080-01	.9780-01	.9430	.3801-02	.6113-02	.3780	2.359	560.1
303	129.30	.81000	867.00	.8650-01	.5780-01	.9290-01	.9430	.3611-02	.5805-02	.3590	2.230	560.1
303	129.30	.82000	868.00	.8170-01	.5480-01	.8770-01	.9430	.3427-02	.5477-02	.3440	2.137	559.1
303	129.30	.83000	869.00	.8590-01	.5750-01	.9230-01	.9430	.3594-02	.5768-02	.3590	2.232	559.8
303	135.00	.40000-01	870.00	.4652	.2774	.3693	.9692	.1733-01	.2308-01	1.416	8.961	577.9
303	135.00	.50000-01	871.00	.5079	.3026	.4176	.9659	.1891-01	.2609-01	1.543	9.712	577.9
303	135.00	.60000-01	872.00	.4657	.2545	.3834	.9629	.1590-01	.2395-01	1.156	7.526	586.8
303	135.00	.70000-01	873.00	.5562	.2733	.4594	.9602	.1707-01	.2871-01	1.107	7.352	594.7
303	135.00	.10000+00	875.00	.3146	.1918	.3019	.9533	.1198-01	.1886-01	1.012	6.548	575.1
303	135.00	.15000	876.00	.2072	.1259	.2185	.9460	.7863-02	.1365-01	.6610	4.766	575.5
303	135.00	.20000	877.00	.1374	.8960-01	.1482	.9432	.5601-02	.9259-02	.5310	3.551	564.6
303	135.00	.35000	878.00	.1004	.6800-01	.1076	.9430	.4249-02	.6723-02	.4340	2.683	557.4
303	135.00	.40000	879.00	.9900-01	.6680-01	.1061	.9430	.4171-02	.6632-02	.4230	2.664	558.2
303	135.00	.50000	880.00	.8430-01	.5630-01	.9070-01	.9430	.3516-02	.5664-02	.3480	2.376	560.4
303	135.00	.55000	881.00	.6850-01	.4590-01	.7350-01	.9430	.2869-02	.4594-02	.2870	1.902	559.4
303	135.00	.60000	882.00	.9850-01	.6580-01	.1059	.9430	.4108-02	.6618-02	.4070	2.719	560.4
303	135.00	.65000	883.00	.9640-01	.6460-01	.1035	.9430	.4039-02	.6468-02	.4040	2.741	559.4
303	135.00	.70000	884.00	.8880-01	.5870-01	.9560-01	.9430	.3670-02	.5876-02	.3570	2.522	562.1

(IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F15)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
303	135.00	.75000	885.00	.7650-01	.5080-01	.8230-01	.9430	.3171-02	.5145-02	.3110	1.944	561.5
303	135.00	.80000	886.00	.8670-01	.5850-01	.9300-01	.9430	.3657-02	.5809-02	.3710	2.320	558.0
303	135.00	.84000	887.00	.7590-01	.5980-01	.9460-01	.9130	.2678-02	.4234-02	.0000	.0000	244.7
301	180.00	.40000-01	600.00	.3750	.2301	.3087	.9671	.1436-01	.1926-01	1.225	7.768	573.8
301	180.00	.50000-01	601.00	.3899	.2385	.3313	.9639	.1488-01	.2067-01	1.263	8.034	574.2
301	180.00	.60000-01	602.00	.3714	.2157	.3204	.9610	.1345-01	.1999-01	1.056	6.926	580.5
301	180.00	.70000-01	603.00	.4147	.2246	.3632	.9584	.1401-01	.2265-01	1.007	6.734	587.3
301	180.00	.80000-01	604.00	.3537	.2031	.3249	.9560	.1267-01	.2026-01	.9810	6.269	581.7
301	180.00	.10000+00	605.00	.2324	.1443	.2272	.9519	.9000-02	.1417-01	.7820	5.544	572.2
301	180.00	.15000	606.00	.1654	.1013	.1760	.9453	.6317-02	.1098-01	.5370	3.850	574.1
301	180.00	.20000	607.00	.1177	.7720-01	.1270	.9430	.4813-02	.7923-02	.4600	2.977	563.5
301	180.00	.21000	608.00	.9830-01	.6500-01	.1059	.9430	.4052-02	.6604-02	.3940	2.702	561.9
301	180.00	.22000	609.00	.8800-01	.5830-01	.9470-01	.9430	.3636-02	.5907-02	.3550	2.524	561.4
301	180.00	.30000	610.00	.7020-01	.4680-01	.7540-01	.9430	.2922-02	.4706-02	.2900	1.970	560.0
301	180.00	.35000	611.00	.7010-01	.4720-01	.7520-01	.9430	.2942-02	.4692-02	.2960	1.963	558.4
301	180.00	.36000	612.00	.7320-01	.4930-01	.7850-01	.9430	.3077-02	.4897-02	.3110	2.078	558.1
301	180.00	.37500	614.00	.7890-01	.5310-01	.8470-01	.9430	.3309-02	.5285-02	.3330	2.222	558.6
301	180.00	.38000	615.00	.7340-01	.4930-01	.7880-01	.9430	.3078-02	.4916-02	.3090	2.067	558.6
301	180.00	.38500	616.00	.7310-01	.4910-01	.7850-01	.9430	.3065-02	.4894-02	.3080	2.059	558.6
301	180.00	.39000	617.00	.8230-01	.5570-01	.8810-01	.9430	.3475-02	.5499-02	.3550	2.366	557.0
301	180.00	.39500	618.00	.7840-01	.5300-01	.8410-01	.9430	.3303-02	.5246-02	.3350	2.247	557.7
301	180.00	.40000	619.00	.8190-01	.5530-01	.8780-01	.9430	.3447-02	.5479-02	.3490	2.327	557.8
301	180.00	.40500	620.00	.9040-01	.6100-01	.9690-01	.9430	.3804-02	.6044-02	.3860	2.578	557.8
301	180.00	.41000	621.00	.9390-01	.6320-01	.1008	.9430	.3944-02	.6287-02	.3980	2.658	558.3
301	180.00	.41500	622.00	.9550-01	.6440-01	.1025	.9430	.4018-02	.6392-02	.4060	2.708	559.0
301	180.00	.42500	624.00	.8320-01	.5660-01	.8940-01	.9430	.3467-02	.5578-02	.3540	2.292	559.8
301	180.00	.43000	625.00	.8150-01	.5470-01	.8750-01	.9430	.3411-02	.5461-02	.3410	2.280	559.1
301	180.00	.44000	626.00	.7840-01	.5260-01	.8410-01	.9430	.3278-02	.5249-02	.3280	2.192	559.1
301	180.00	.44500	627.00	.7790-01	.5210-01	.8370-01	.9430	.3252-02	.5218-02	.3240	2.185	559.4
301	180.00	.45000	628.00	.7820-01	.5220-01	.8410-01	.9430	.3254-02	.5246-02	.3220	2.169	560.2
301	180.00	.45500	629.00	.7720-01	.5190-01	.8290-01	.9430	.3236-02	.5171-02	.3250	2.224	558.7
301	180.00	.46000	630.00	.7670-01	.5140-01	.8240-01	.9430	.3205-02	.5138-02	.3200	2.138	559.3
301	180.00	.47000	631.00	.8170-01	.5440-01	.8780-01	.9430	.3391-02	.5479-02	.3340	2.231	560.6
301	180.00	.48000	632.00	.8180-01	.5440-01	.8800-01	.9430	.3396-02	.5488-02	.3350	2.248	560.6
301	180.00	.49000	633.00	.8200-01	.5460-01	.8810-01	.9430	.3404-02	.5499-02	.3360	2.255	560.5
301	180.00	.50000	634.00	.6750-01	.4500-01	.7260-01	.9430	.2805-02	.4528-02	.2770	1.924	560.4
301	180.00	.55000	635.00	.6230-01	.4100-01	.6710-01	.9430	.2557-02	.4188-02	.2470	1.626	562.6
301	180.00	.60000	636.00	.8220-01	.5420-01	.8860-01	.9430	.3383-02	.5525-02	.3280	2.096	562.2
301	180.00	.65000	637.00	.8740-01	.5770-01	.9410-01	.9430	.3596-02	.5873-02	.3490	2.237	562.2
301	180.00	.70000	638.00	.7900-01	.5160-01	.8530-01	.9430	.3221-02	.5323-02	.3060	2.080	564.0
301	180.00	.75000	639.00	.6020-01	.3920-01	.6510-01	.9430	.2444-02	.4058-02	.2310	1.476	564.6
301	180.00	.80000	640.00	.7580-01	.4950-01	.8190-01	.9430	.3091-02	.5108-02	.2940	1.828	564.0
301	180.00	.85000	641.00	.7900-01	.5120-01	.8550-01	.9430	.3196-02	.5335-02	.2990	1.875	565.4

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
301	180.00	.86000	642.00	.8130-01	.5260-01	.8800-01	.9430	.3278-02	.5489-02	.3060	1.942	565.8
301	180.00	.87000	643.00	.8730-01	.5640-01	.9460-01	.9430	.3517-02	.5899-02	.3270	2.089	566.1
301	180.00	.88000	644.00	.9230-01	.5940-01	.1000+00	.9430	.3708-02	.6237-02	.3440	2.214	566.5
301	180.00	.89000	645.00	.8700-01	.5590-01	.9430-01	.9430	.3485-02	.5883-02	.3210	2.093	567.0
301	180.00	.90000	646.00	.6770-01	.4400-01	.7320-01	.9430	.2744-02	.4568-02	.2580	1.720	565.0
301	180.00	.95000	649.00	.8480-01	.5600-01	.9140-01	.9430	.3495-02	.5703-02	.3390	2.430	562.1
301	191.25	.35000	650.00	.8560-01	.5730-01	.9200-01	.9430	.3572-02	.5737-02	.3550	2.374	559.6
301	191.25	.36000	651.00	.8560-01	.5760-01	.9190-01	.9430	.3592-02	.5732-02	.3610	2.422	558.5
301	191.25	.37000	652.00	.8010-01	.5[illegible]-01	.8600-01	.9430	.3367-02	.5363-02	.3400	2.271	558.2
301	191.25	.37500	653.00	.5130-01	.3670-01	.5440-01	.9430	.2289-02	.3391-02	.2650	1.787	543.5
301	191.25	.38000	654.00	.7780-01	.5240-01	.8340-01	.9430	.3271-02	.5204-02	.3310	2.218	558.0
301	191.25	.38500	655.00	.7670-01	.5160-01	.8240-01	.9430	.3219-02	.5137-02	.3240	2.170	558.5
301	191.25	.39000	656.00	.8180-01	.5500-01	.8780-01	.9430	.3429-02	.5479-02	.3440	2.308	558.7
301	191.25	.39500	657.00	.8090-01	.5440-01	.8690-01	.9430	.3391-02	.5418-02	.3410	2.282	558.7
301	191.25	.40000	658.00	.8140-01	.5450-01	.8740-01	.9430	.3400-02	.5451-02	.3400	2.282	559.3
301	191.25	.41000	660.00	.8250-01	.5520-01	.8860-01	.9430	.3444-02	.5526-02	.3440	2.301	559.4
301	191.25	.41500	661.00	.8460-01	.5700-01	.9060-01	.9430	.3556-02	.5661-02	.3590	2.401	558.1
301	191.25	.42000	662.00	.8800-01	.5870-01	.9460-01	.9430	.3661-02	.5900-02	.3630	2.428	560.1
301	191.25	.42500	663.00	.8600-01	.5740-01	.9250-01	.9430	.3581-02	.5769-02	.3550	2.382	560.1
301	191.25	.43000	664.00	.8870-01	.5920-01	.9540-01	.9430	.3690-02	.5952-02	.3650	2.473	560.3
301	191.25	.44000	665.00	.8960-01	.5960-01	.9640-01	.9430	.3717-02	.6015-02	3650	2.462	560.8
301	191.25	.45000	666.00	.8950-01	.5960-01	.9620-01	.9430	.3721-02	.6004-02	3680	2.477	560.3
301	191.25	.45500	667.00	.8880-01	.5930-01	.9550-01	.9430	.3697-02	.5957-02	.3660	2.468	560.1
301	191.25	.46000	668.00	.8990-01	.6030-01	.9660-01	.9430	.3760-02	.6027-02	.3750	2.539	559.3
301	191.25	.47000	669.00	.9160-01	.6110-01	.9850-01	.9430	.3810-02	.6144-02	.3770	2.555	560.2
301	191.25	.48000	670.00	.9130-01	.6070-01	.9820-01	.9430	.3789-02	.6127-02	.3730	2.527	560.7
301	191.25	.49000	671.00	.9260-01	.6150-01	.9970-01	.9430	.3835-02	6216-02	.3760	2.541	561.0
301	191.25	.50000	672.00	.9040-01	.6030-01	.9720-01	.9430	.3765-02	.6065-02	.3730	2.575	560.1
301	191.25	.60000	673.00	.8820-01	.5790-01	.9520-01	.9430	.3612-02	.5941-02	.3460	2.201	563.3
301	191.25	.70000	674.00	.8110-01	.5220-01	.8790-01	.9430	.3255-02	.5484-02	.3010	2.027	566.7
301	191.25	.85000	676.00	.7780-01	.5080-01	.8410-01	.9430	.3168-02	.5244-02	.3010	1.884	564.2
301	191.25	.86000	677.00	.7710-01	.5010-01	.834[illegible]	.9430	.3126-02	.5201-02	.2940	1.865	565.0
301	191.25	.87000	678.00	.7560-01	.4890-01	.81[illegible]	.9430	.3051-02	.5108-02	.2850	1.818	565.8
301	191.25	.88000	679.00	.7200-01	.4640-01	.7900-[illegible]	.9430	.2893-02	.4865-02	.2680	1.733	566.4
301	191.25	.89000	680.00	.7340-01	.4720-01	.7960-[illegible]	.9430	.2945-02	.4963-02	.2720	1.783	566.8
301	191.25	.90000	681.00	.6070-01	.3910-01	.6570-0[illegible]	9430	.2441-02	.4101-02	.2270	1.512	566.3
301	191.25	.91000	682.00	.3250-01	.2130-01	.3510-0[illegible]	9430	.1328-02	.2190-02	.1270	.9170	563.7
301	191.25	.92600	683.00	.4060-01	.267[illegible]-01	.4400-01	9430	.1638-02	.2746-02	.1530	1.106	566.0
301	191.25	.95000	684.00	.8660-01	.5750-01	.9320-01	[illegible]30	.3590-02	.5814-02	.3520	2.528	560.9
301	197.00	.33000	635.00	.8510-01	.5700-01	.9140-01	[illegible]30	.3554-02	.5704-02	.3540	2.366	559.5
301	197.00	.34000	686.00	.8550-01	.5710-01	.9190-01	[illegible]30	.3565-02	.5730-02	.3549	2.367	559.7
301	197.00	.35000	687.00	.8380-01	.5620-01	.9000-01	.9[illegible]30	.3506-02	.5616-02	.3500	2.341	559.2
301	197.00	.36000	688.00	.8580-01	.5750-01	.9220-01	.9430	.3596-02	.5751-02	.3580	2.391	559.3

ORIGINAL PAGE IS
OF POOR QUALITY

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F15)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
301	197.00	.37000	689.00	.8540-01	.5750-01	.9160-01	.9430	.3587-02	.5715-02	.3620	2.419	558.2
301	197.00	.37500	690.00	.8690-01	.5830-01	.9330-01	.9430	.3635-02	.5819-02	.3640	2.439	559.0
301	197.00	.50000	691.00	.8810-01	.5820-01	.9490-01	.9430	.3632-02	.5917-02	.3530	2.358	561.8
301	197.00	.60000	692.00	.8830-01	.5830-01	.9520-01	.9430	.3634-02	.5938-02	.3520	2.251	562.3
301	197.00	.70000	693.00	.8020-01	.5190-01	.8690-01	.9430	.3235-02	.5420-02	.3010	2.025	565.9
301	197.00	.80000	694.00	.8620-01	.5670-01	.9300-01	.9430	.3539-02	.5802-02	.3410	2.125	562.8
301	197.00	.87000	695.00	.8120-01	.5290-01	.8780-01	.9430	.3299-02	.5480-02	.3120	1.968	564.7
301	197.00	.92600	696.00	.5000-01	.3250-01	.5400-01	.9430	.2027-02	.3371-02	.1910	1.386	564.9
301	209.80	.15000-01	697.00	.2122	.1393	.2289	.9430	.8688-02	.1428-01	.8330	5.676	563.2
302	209.80	.30000-01	698.00	.4158	.2552	.3343	.9694	.1593-01	.2086-01	1.359	9.123	573.9
302	209.80	.50000-01	699.00	.4265	.2657	.3618	.9648	.1658-01	.2257-01	1.449	9.093	571.9
302	209.80	.70000-01	700.00	.4342	.2386	.3776	.9591	.1489-01	.2356-01	1.096	7.226	586.1
302	209.80	.10000+00	701.00	.2868	.1768	.2783	.9525	.1103-01	.1736-01	.9480	5.986	573.3
302	209.80	.15000	702.00	.1783	.1110	.1885	.9456	.6925-02	.1176-01	.6050	4.270	572.0
302	209.80	.20000	703.00	.1268	.8430-01	.1363	.9431	.5259-02	.8503-02	.5170	3.421	560.9
302	209.80	.30000	704.00	.8200-01	.5520-01	.8790-01	.9430	.3446-02	.5487-02	.3480	2.452	558.2
302	209.80	.37500	706.00	.8160-01	.5600-01	.8720-01	.9430	.3494-02	.5443-02	.3660	2.507	554.3
302	209.80	.50000	707.00	.7940-01	.5320-01	.8530-01	.9430	.3319-02	.5322-02	.3310	2.254	559.4
302	209.80	.60000	708.00	.9010-01	.6050-01	.9670-01	.9430	.3777-02	.6034-02	.3790	2.404	558.8
302	209.80	.70000	709.00	.1022	.6740-01	.1102	.9430	.4203-02	.6873-02	.4070	2.571	562.5
302	209.80	.80000	710.00	.8180-01	.5450-01	.8800-01	.9430	.3400-02	.5489-02	.3360	2.078	560.5
302	209.80	.87000	711.00	.8010-01	.5260-01	.8640-01	.9430	.3280-02	.5391-02	.3150	1.972	563.3
302	209.80	.92600	712.00	.3690-01	.2430-01	.3970-01	.9430	.1516-02	.2479-02	.1470	1.058	562.5
302	217.70	.15000-01	713.00	.2333	.1554	.2508	.9430	.9698-02	.1565-01	.9580	6.554	560.5
302	217.70	.30000-01	714.00	.4291	.2604	.3410	.9699	.1625-01	.2128-01	1.363	9.139	575.4
302	217.70	.50000-01	715.00	.4888	.3042	.4122	.9653	.1898-01	.2572-01	1.657	10.67	572.0
302	217.70	.70000-01	716.00	.4928	.2631	.4219	.9596	.1641-01	.2633-01	1.161	7.757	588.5
302	217.70	.10000+00	717.00	.3154	.1925	.3044	.9528	.1201-01	.1899-01	1.016	6.495	574.7
302	217.70	.15000	718.00	.1904	.1198	.2004	.9458	.7473-02	.1250-01	.6640	4.803	570.4
302	217.70	.20000	719.00	.1319	.8820-01	.1416	.9431	.5504-02	.8835-02	.5470	3.666	559.8
302	217.70	.30000	720.00	.7610-01	.5130-01	.8160-01	.9430	.3199-02	.5094-02	.3230	2.298	558.2
302	217.70	.35000	721.00	.8510-01	.5820-01	.9100-01	.9430	.3631-02	.5677-02	.3790	2.613	555.0
302	217.70	.37500	722.00	.8480-01	.5810-01	.9070-01	.9430	.3624-02	.5658-02	.3790	2.615	554.7
302	217.70	.50000	723.00	.8060-01	.5450-01	.8640-01	.9430	.3400-02	.5390-02	.3460	2.378	557.5
302	217.70	.70000	725.00	.9280-01	.6180-01	.9980-01	.9430	.3857-02	.6228-02	.3810	2.403	560.6
302	217.70	.80000	726.00	.9010-01	.6050-01	.9670-01	.9430	.3772-02	.6033-02	.3780	2.362	559.0
302	217.70	.87000	727.00	.8590-01	.5710-01	.9240-01	.9430	.3562-02	.5765-02	.3500	2.224	560.9
302	217.70	.92600	728.00	.4540-01	.3020-01	.4880-01	.9430	.1883-02	.3047-02	.1850	1.337	560.9

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = 5.000 BETA = .0000 GRIT = 3.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TC DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
104	3.510	4.786	5.010	.0000	.0000	56.90	.7360	681.0	196.6	6.348	2412.	.3141-03
105	3.510	4.784	5.000	.0000	.0000	56.90	.7360	681.0	196.6	6.346	2412.	.3140-03
106	3.510	4.801	4.990	.0000	.0000	57.20	.7390	681.0	196.7	6.372	2412.	.3152-03
281	3.510	4.827	4.990	.0000	.0000	56.90	.7360	677.0	195.4	6.345	2404.	.3159-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
104	.1583-06	.5535-01	.9291-02
105	.1583-06	.5534-01	.9293-02
106	.1584-06	.5546-01	.9277-02
281	.1573-06	.5529-01	.9258-02

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF P= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
105	.00000	.30000-02	730.00	.5107	.3346	.3852	.9810	.1852-01	.2132-01	1.829	12.34	582.3
105	.00000	.10300-01	731.00	.1958	.1424	.2335	.9285	.7881-02	.1293-01	.9840	6.747	556.2
105	.00000	.15000-01	732.00	.1808	.1311	.2161	.9285	.7255-02	.1196-01	.8990	6.085	557.2
105	.00000	.20000-01	733.00	.3510	.2429	.2825	.9772	.1344-01	.1564-01	1.486	10.08	570.6
105	.00000	.25000-01	734.00	.7250	.4187	.5302	.9751	.2317-01	.2934-01	1.868	12.37	600.5
105	.00000	.30000-01	735.00	.7563	.4631	.5837	.9734	.2563-01	.3230-01	2.251	15.06	593.3
105	.00000	.40000-01	737.00	.5370	.3584	.4413	.9718	.1984-01	.2443-01	2.032	13.04	578.7
105	.00000	.45000-01	738.00	.5496	.3671	.4585	.9699	.2032-01	.2538-01	2.092	13.64	578.2
105	.00000	.60000-01	739.00	.6326	.3876	.5348	.9645	.2145-01	.2960-01	1.886	12.39	593.2
105	.00000	.70000-01	740.00	.6803	.3989	.5886	.9610	.2208-01	.3257-01	1.817	11.98	598.8
105	.00000	.80000-01	741.00	.4883	.3130	.4491	.9578	.1732-01	.2486-01	1.643	11.71	586.3
105	.00000	.10000+00	742.00	.3543	.2428	.3487	.9517	.1344-01	.1930-01	1.455	9.596	572.8
105	.00000	.12500	743.00	.2710	.1821	.2846	.9451	.1008-01	.1575-01	1.045	7.484	577.4
105	.00000	.15000	744.00	.2217	.1538	.2442	.9396	.8514-02	.1351-01	.9470	6.509	569.9
105	.00000	.17500	745.00	.1543	.1093	.1759	.9351	.6047-02	.9734-02	.7060	5.258	564.4
105	.00000	.20000	746.00	.1167	.8400-01	.1362	.9317	.4649-02	.7537-02	.5650	4.013	559.7

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F15)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
105	.00000	.21500	747.00	.1084	.7830-01	.1280	.9301	.4332-02	.7084-02	.5310	3.655	558.6
105	.00000	.23000	748.00	.8680-01	.6260-01	.1036	.9290	.3467-02	.5734-02	.4240	3.115	558.8
105	.00000	.24000	749.00	.8010-01	.5790-01	.9600-01	.9285	.3204-02	.5311-02	.3930	2.950	558.3
105	.00000	.25000	750.00	.4920-01	.3600-01	.5840-01	.9285	.1995-02	.3231-02	.2540	2.049	553.7
105	.00000	.30000	751.00	.8140-01	.5910-01	.9710-01	.9285	.3271-02	.5374-02	.4070	2.660	556.6
105	.00000	.35000	752.00	.8390-01	.6140-01	.9960-01	.9285	.3398-02	.5514-02	.4320	2.718	554.1
105	.00000	.40000	753.00	.8310-01	.6090-01	.9860-01	.9285	.3372-02	.5458-02	.4300	2.755	553.6
105	.00000	.50000	754.00	.7950-01	.5760-01	.9490-01	.9285	.3190-02	.5254-02	.3960	2.577	557.0
105	.00000	.60000	755.00	.7020-01	.5110-01	.8370-01	.9285	.2828-02	.4634-02	.3540	2.256	556.1
105	.00000	.70000	756.00	.5050-01	.3630 01	.6060-01	.9285	.2011-02	.3354-02	.2450	1.606	559.4
105	.00000	.80000	757.00	.5030-01	.3630-01	.6030-01	.9285	.2010-02	.3335-02	.2470	1.537	558.4
105	.00000	.90000	758.00	.4300-01	.3120-01	.5140-01	.9285	.1726-02	.2845-02	.2140	1.376	557.2
105	55.000	.22000	759.00	.8130-01	.5950-01	.9620-01	.9289	.3291-02	.5326-02	.4180	3.095	554.2
105	55.000	.25000	760.00	.4570-01	.3380-01	.5410-01	.9280	.1871-02	.2993-02	.2450	1.913	550.3
105	55.000	.27000	761.00	.5660-01	.4160-01	.6730-01	.9280	.2304-02	.3724-02	.2960	2.197	552.6
105	55.000	.30000	762.00	.7680-01	.5670-01	.9090-01	.9280	.3138-02	.5032-02	.4090	2.453	550.8
105	55.000	.32000	763.00	.7610-01	.5640-01	.9000-01	.9280	.3120-02	.4982-02	.4090	2.419	549.9
105	55.000	.34000	764.00	.7600-01	.5630-01	.8970-01	.9280	.3118-02	.4966-02	.4110	2.435	549.3
105	55.000	.36000	765.00	.7100-01	.5280-01	.8370-01	.9280	.2920-02	.4635-02	.3870	2.325	548.6
105	55.000	.38000	766.00	.7070-01	.5260-01	.8330-01	.9280	.2909-02	.4613-02	.3860	2.347	548.3
105	55.000	.40000	767.00	.7240-01	.5390-01	.8530-01	.9280	.2985-02	.4720-02	.3980	2.488	547.7
105	67.500	.23000	768.00	.7680-01	.5660-01	.9100-01	.9281	.3132-02	.5034-02	.4060	3.011	551.6
105	67.500	.25000	769.00	.3890-01	.2890-01	.4600-01	.9279	.1600-02	.2545-02	.2120	1.644	548.9
105	67.500	.27000	770.00	.5960-01	.4400-01	.7070-01	.9279	.2434-02	.3914-02	.3160	2.300	551.2
105	67.500	.29000	771.00	.4930-01	.3660-01	.5820-01	.9279	.2026-02	.3221-02	.2680	1.659	548.8
105	67.500	.30000	772.00	.7040-01	.5210-01	.8330-01	.9279	.2881-02	.4611-02	.3770	2.301	550.2
105	67.500	.31000	773.00	.6930-01	.5130-01	.8200-01	.9279	.2837-02	.4537-02	.3720	2.251	550.0
105	67.500	.32000	774.00	.6710-01	.4980-01	.7920-01	.9279	.2755-02	.4383-02	.3640	2.188	548.9
105	67.500	.32500	775.00	.6260-01	.4650-01	.7390-01	.9279	.2573-02	.4089-02	.3410	2.054	548.6
105	67.500	.33000	776.00	.6530-01	.4860-01	.7710-01	.9279	.2687-02	.4269-02	.3560	2.151	548.6
105	67.500	.33500	777.00	.6690-01	.4970-01	.7890-01	.9279	.2753-02	.4365-02	.3660	2.211	548.1
105	67.500	.34000	778.00	.6550-01	.4870-01	.7720-01	.9279	.2693-02	.4274-02	.3580	2.161	548.3
105	67.500	.34500	779.00	.6810-01	.5070-01	.8040-01	.9279	.2804-02	.4448-02	.3730	2.257	548.2
105	67.500	.35000	780.00	.6550-01	.4880-01	.7720-01	.9279	.2699-02	.4274-02	.3600	2.186	547.8
105	67.500	.35500	781.00	.6510-01	.4840-01	.7670-01	.9279	.2680-02	.4246-02	.3570	2.174	547.9
105	67.500	.36000	782.00	.6430-01	.4780-01	.7580-01	.9279	.2647-02	.4195-02	.3520	2.146	548.0
105	67.500	.36500	783.00	.6570-01	.4890-01	.7730-01	.9279	.2709-02	.4281-02	.3620	2.201	547.4
105	67.500	.37000	784.00	.6430-01	.4790-01	.7570-01	.9279	.2652-02	.4191-02	.3550	2.167	547.4
105	67.500	.37500	785.00	.6960-01	.5190-01	.8200-01	.9279	.2869-02	.4536-02	.3840	2.363	547.5
105	67.500	.38000	786.00	.6240-01	.4650-01	.7360-01	.9279	.2575-02	.4071-02	.3440	2.127	547.4
105	67.500	.39000	787.00	.6540-01	.4850-01	.7710-01	.9279	.2692-02	.4268-02	.3580	2.218	548.1
105	67.500	.40000	788.00	.6080-01	.4520-01	.7180-01	.9279	.2502-02	.3973-02	.3320	2.073	548.4
105	67.500	.50000	789.00	.6530-01	.4820-01	.7740-01	.9279	.2669-02	.4286-02	.3470	2.223	550.9

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F15)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
106	67.500	.60000	790.00	.6860-01	.5080-01	.8120-01	.9279	.2809-02	.4496-02	.3680	2.408	550.2
106	67.500	.70000	791.00	.6050-01	.4460-01	.7180-01	.9279	.2470-02	.3973-02	.3210	2.261	551.2
106	67.500	.80000	792.00	.6910-01	.5130-01	.8160-01	.9279	.2337-02	.4516-02	.3750	2.352	549.0
106	67.500	.90000	793.00	.7070-01	.5160-01	.8450-01	.9279	.2357-02	.4675-02	.3610	2.317	554.8
106	78.000	.27000	794.00	.5630-01	.4160-01	.6690-01	.9278	.2300-02	.3701-02	.2990	2.126	551.2
106	78.000	.29000	795.00	.5890-01	.4390-01	.6940-01	.9279	.2431-02	.3844-02	.3240	1.999	547.2
106	78.000	.30000	796.00	.6620-01	.4900-01	.7850-01	.9278	.2716-02	.4356-02	.3550	2.147	550.7
106	78.000	.31000	797.00	.6360-01	.4710-01	.7540-01	.9278	.2611-02	.4180-02	.3420	2.071	550.3
106	78.000	.32000	798.00	.6230-01	.4610-01	.7370-01	.9278	.2558-02	.4088-02	.3360	2.024	549.9
106	78.000	.32500	799.00	.6370-01	.4720-01	.7540-01	.9278	.2620-02	.4182-02	.3450	2.081	549.8
106	78.000	.33000	800.00	.6010-01	.4450-01	.7100-01	.9278	.2470-02	.3939-02	.3260	1.967	549.5
106	78.000	.33500	801.00	.6730-01	.4980-01	.7970-01	.9278	.2764-02	.4418-02	.3630	2.192	550.0
106	78.000	.34000	802.00	.6150-01	.4560-01	.7270-01	.9278	.2528-02	.4032-02	.3330	2.012	549.6
106	78.000	.34500	803.00	.6310-01	.4680-01	.7460-01	.9278	.2597-02	.4135-02	.3430	2.079	549.2
106	78.000	.35000	804.00	.6450-01	.4790-01	.7630-01	.9278	.2656-02	.4229-02	.3510	2.127	549.1
106	78.000	.35500	805.00	.6330-01	.4700-01	.7480-01	.9278	.2608-02	.4150-02	.3450	2.091	549.0
106	78.000	.36000	806.00	.6190-01	.4610-01	.7310-01	.9278	.2555-02	.4053-02	.3400	2.064	548.3
106	78.000	.36500	807.00	.5980-01	.4440-01	.7070-01	.9278	.2464-02	.3921-02	.3260	1.985	549.1
106	78.000	.37000	808.00	.6300-01	.4680-01	.7440-01	.9278	.2594-02	.4128-02	.3430	2.095	549.1
106	78.000	.37500	809.00	.6230-01	.4620-01	.7360-01	.9278	.2562-02	.4084-02	.3380	2.075	549.4
106	78.000	.38000	810.00	.5830-01	.4330-01	.6890-01	.9278	.2402-02	.3823-02	.3180	1.950	549.1
106	78.000	.39000	811.00	.5600-01	.4150-01	.6620-01	.9278	.2304-02	.3671-02	.3040	1.874	549.3
106	78.000	.40000	812.00	.5530-01	.4110-01	.6540-01	.9278	.2281-02	.3626-02	.3020	1.861	548.8
281	90.000	.40000-01	985.00	.4773	.3200	.4237	.9629	.1769-01	.2343-01	1.818	11.66	574.2
281	90.000	.50000-01	986.00	.4837	.3228	.4425	.9593	.1785-01	.2446-01	1.817	11.58	575.1
281	90.000	.60000-01	987.00	.4519	.2839	.4219	.9560	.1570-01	.2333-01	1.429	9.224	585.9
281	90.000	.80000-01	989.00	.3789	.2457	.3792	.9499	.1359-01	.2097-01	1.308	9.115	580.6
281	90.000	.15000	991.00	.1564	.1081	.1815	.9345	.5975-02	.1003-01	.6540	4.755	567.4
106	90.000	.20000	813.00	.6240-01	.4610-01	.7410-01	.9279	.2555-02	.4108-02	.3320	2.410	551.3
106	90.000	.24000	814.00	.5080-01	.3740-01	.6030-01	.9278	.2076-02	.3345-02	.2690	2.172	551.7
106	90.000	.27000	816.00	.5600-01	.4140-01	.6640-01	.9278	.2298-02	.3682-02	.3010	2.134	550.5
106	90.000	.29000	817.00	.5040-01	.3740-01	.5970-01	.9278	.2074-02	.3309-02	.2740	1.698	549.5
106	90.000	.30000	818.00	.6450-01	.4770-01	.7640-01	.9278	.2646-02	.4240-02	.3460	2.113	550.5
106	90.000	.31000	819.00	.6350-01	.4710-01	.7520-01	.9278	.2611-02	.4172-02	.3430	2.078	549.9
106	90.000	.32000	820.00	.6090-01	.4520-01	.7210-01	.9278	.2506-02	.3998-02	.3300	1.995	549.5
106	90.000	.32500	821.00	.6070-01	.4490-01	.7180-01	.9278	.2493-02	.3982-02	.3280	1.973	549.9
106	90.000	.33000	822.00	.6050-01	.4500-01	.7160-01	.9278	.2493-02	.3969-02	.3300	1.992	549.1
106	90.000	.33500	823.00	.5920-01	.4400-01	.6990-01	.9278	.2438-02	.3877-02	.3230	1.957	548.8
106	90.000	.34000	824.00	.6050-01	.4490-01	.7150-01	.9278	.2492-02	.3963-02	.3300	1.989	548.9
106	90.000	.34500	825.00	.5900-01	.4390-01	.6970-01	.9278	.2433-02	.3868-02	.3220	1.947	548.8
106	90.000	.35000	826.00	.5940-01	.4420-01	.7020-01	.9278	.2449-02	.3894-02	.3250	1.962	548.8
106	90.000	.36000	828.00	.5700-01	.4230-01	.6730-01	.9278	.2347-02	.3732-02	.3110	1.874	548.8
106	90.000	.37000	830.00	.5700-01	.4240-01	.6730-01	.9278	.2352-02	.3730-02	.3130	1.898	548.2

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE (RV7F15)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
106	90.000	.37500	831.00	.5650-01	.4200-01	.6660-01	.9278	.2331-02	.3696-02	.3110	1.893	548.1
106	90.000	.38000	832.00	.5700-01	.4240-01	.6730-01	.9278	.2349-02	.3730-02	.3120	1.900	548.6
106	90.000	.39000	833.00	.5590-01	.4160-01	.6600-01	.9278	.2306-02	.3659-02	.3070	1.889	548.3
106	90.000	.40000	834.00	.5610-01	.4170-01	.6620-01	.9278	.2310-02	.3673-02	.3060	1.891	548.8
106	90.000	.50000	835.00	.6710-01	.4950-01	.7960-01	.9278	.2743-02	.4417-02	.3560	2.246	551.5
106	90.000	.60000	836.00	.5880-01	.4360-01	.6960-01	.9278	.2419-02	.3860-02	.3190	2.120	549.6
106	90.000	.70000	837.00	.5760-01	.4260-01	.6820-01	.9278	.2360-02	.3784-02	.3090	2.168	550.7
106	90.000	.80000	838.00	.5450-01	.4060-01	.6440-01	.9278	.2249-02	.3569-02	.2990	1.858	548.3
106	90.000	.90000	839.00	.3990-01	.2980-01	.4690-01	.9278	.1655-02	.2604-02	.2230	1.429	546.3
106	112.50	.23000	840.00	.5390-01	.3990-01	.6380-01	.9278	.2211-02	.3539-02	.2900	2.334	550.2
106	112.50	.25000	841.00	.2810-01	.2090-01	.3310-01	.9278	.1159-02	.1838-02	.1550	1.197	548.1
106	112.50	.27000	842.00	.2920-01	.2180-01	.3450-01	.9278	.1210-02	.1911-02	.1620	1.135	547.3
106	112.50	.30000	843.00	.5480-01	.4070-01	.6480-01	.9278	.2257-02	.3596-02	.2980	1.771	549.3
106	112.50	.33000	844.00	.5320-01	.3940-01	.6290-01	.9278	.2188-02	.3486-02	.2890	1.740	549.3
106	112.50	.35000	845.00	.4960-01	.3690-01	.5850-01	.9278	.2044-02	.3245-02	.2720	1.664	548.4
106	112.50	.37000	846.00	.5150-01	.3830-01	.6070-01	.9278	.2126-02	.3368-02	.2840	1.746	548.0
106	112.50	.40000	847.00	.5050-01	.3770-01	.5950-01	.9278	.2091-02	.3300-02	.2810	1.749	547.1
106	112.50	.45000	848.00	.5200-01	.3880-01	.6130-01	.9278	.2150-02	.3402-02	.2870	1.805	547.7
106	112.50	.50000	849.00	.5150-01	.3820-01	.6090-01	.9278	.2121-02	.3378-02	.2800	1.800	549.2
106	112.50	.55000	850.00	.4060-01	.3030-01	.4790-01	.9278	.1679-02	.2655-02	.2250	1.499	547.6
106	112.50	.60000	851.00	.4930-01	.3660-01	.5820-01	.9278	.2030-02	.3227-02	.2690	1.803	548.7
106	112.50	.65000	852.00	.5200-01	.3880-01	.6180-01	.9278	.2150-02	.3427-02	.2840	1.929	549.3
106	112.50	.70000	853.00	.5840-01	.4320-01	.6920-01	.9278	.2394-02	.3837-02	.3130	2.193	550.6
106	112.50	.75000	854.00	.3790-01	.2830-01	.4470-01	.9278	.1567-02	.2477-02	.2100	1.361	547.5
106	112.50	.80000	855.00	.4050-01	.3010-01	.4780-01	.9278	.1672-02	.2653-02	.2220	1.445	548.4
106	112.50	.90000	856.00	.3710-01	.2780-01	.4370-01	.9278	.1539-02	.2422-02	.2080	1.347	546.4
106	125.40	.84000	857.00	.4749-01	.3540-01	.5580-01	.9278	.1961-02	.3097-02	.2630	1.624	547.3
106	125.40	.85000	858.00	.4700-01	.3500-01	.5540-01	.9278	.1940-02	.3074-02	.2590	1.608	548.0
106	125.40	.86000	859.00	.4650-01	.3470-01	.5490-01	.9278	.1922-02	.3045-02	.2560	1.606	548.0
106	125.40	.87000	860.00	.4510-01	.3360-01	.5320-01	.9278	.1862-02	.2950-02	.2480	1.559	548.0
106	125.40	.88000	861.00	.4720-01	.3510-01	.5570-01	.9278	.1947-02	.3091-02	.2590	1.626	548.4
106	125.40	.89000	862.00	.4680-01	.3480-01	.5520-01	.9278	.1931-02	.3059-02	.2580	1.628	547.9
106	125.40	.90000	863.00	.4370-01	.3270-01	.5150-01	.9278	.1812-02	.2855-02	.2440	1.551	546.7
106	125.40	.91000	864.00	.2740-01	.2060-01	.3210-01	.9278	.1145-02	.1780-02	.1580	1.150	543.4
106	125.40	.92600	865.00	.4260-01	.3030-01	.5180-01	.9278	.1682-02	.2876-02	.1990	1.433	562.9
106	129.30	.80000	866.00	.4680-01	.3500-01	.5510-01	.9278	.1941-02	.3057-02	.2620	1.644	546.6
106	129.30	.81000	867.00	.4640-01	.3460-01	.5470-01	.9278	.1922-02	.3033-02	.2580	1.612	547.1
106	129.30	.82000	868.00	.4610-01	.3440-01	.5430-01	.9278	.1910-02	.3011-02	.2570	1.605	546.9
106	129.30	.83000	869.00	.4300-01	.3200-01	.5060-01	.9278	.1777-02	.2807-02	.2380	1.491	547.4
106	135.00	.40000-01	870.00	.3953	.2709	.3707	.9572	.1502-01	.2056-01	1.627	10.32	573.1
106	135.00	.50000-01	871.00	.4279	.2937	.4133	.9539	.1629-01	.2292-01	1.769	11.16	572.8
106	135.00	.60000-01	872.00	.4025	.2632	.3994	.9507	.1460-01	.2215-01	1.436	9.366	583.0
106	135.00	.70000-01	873.00	.4902	.3014	.5041	.9478	.1671-01	.2796-01	1.478	9.828	592.9

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F15)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
106	135.00	.10000+00	875.00	.2421	.1699	.2638	.9403	.9421-02	.1463-01	1.076	6.989	567.2
106	135.00	.15000	876.00	.1333	.9500-01	.1561	.9318	.5269-02	.8658-02	.6250	4.537	562.8
106	135.00	.20000	877.00	.7240-01	.5320-01	.8590-01	.9281	.2950-02	.4765-02	.3790	2.550	552.8
106	135.00	.35000	878.00	.5060-01	.3770-01	.5970-01	.9278	.2089-02	.3310-02	.2790	1.731	548.0
106	135.00	.40000	879.00	.4980-01	.3710-01	.5870-01	.9278	.2059-02	.3257-02	.2750	1.745	547.6
106	135.00	.50000	880.00	.4310-01	.3210-01	.5090-01	.9278	.1778-02	.2823-02	.2360	1.621	548.5
106	135.00	.55000	881.00	.3890-01	.2910-01	.4580-01	.9278	.1611-02	.2539-02	.2170	1.445	546.8
106	135.00	.60000	882.00	.4640-01	.3450-01	.5480-01	.9278	.1915-02	.3042-02	.2540	1.708	548.6
281	135.00	.65000	883.00	.5590-01	.4020-01	.6760-01	.9278	.2221-02	.3732-02	.2680	1.622	556.1
281	135.00	.70000	884.00	.5680-01	.4060-01	.6990-01	.9278	.2243-02	.3808-02	.2670	1.884	558.0
281	135.00	.75000	885.00	.5070-01	.3630-01	.6150-01	.9278	.2007-02	.3397-02	.2400	1.502	557.4
281	135.00	.80000	886.00	.5640-01	.4070-01	.6800-01	.9278	.2248-02	.3758-02	.2730	1.711	555.2
281	135.00	.84000	887.00	.7590-01	.5980-01	.9460-01	.9130	.2678-02	.4234-02	.0000	.0000	244.7
281	135.00	.85000	888.00	.4450-01	.3240-01	.5330-01	.9278	.1789-02	.2948-02	.2220	1.405	552.6
281	135.00	.87000	890.00	.4680-01	.3390-01	.5630-01	.9278	.1874-02	.3115-02	.2300	1.455	554.3
281	135.00	.88000	891.00	.4520-01	.3250-01	.5460-01	.9278	.1799-02	.3017-02	.2180	1.385	555.9
281	135.00	.89000	892.00	.4260-01	.3060-01	.5160-01	.9278	.1691-02	.2850-02	.2030	1.315	556.8
281	135.00	.91000	894.00	.1500-01	.1080-01	.1820-01	.9278	.5992-03	.1005-02	.7200-01	.5260	555.9
281	135.00	.92600	895.00	.2330-01	.1660-01	.2830-01	.9278	.9181-03	.1566-02	.1080	.7840	558.7
281	135.00	.95000	896.00	.4560-01	.3240-01	.5570-01	.9278	.1792-02	.3080-02	.2100	1.503	560.0
281	142.30	.42000	897.00	.4820-01	.3560-01	.5720-01	.9278	.1967-02	.3162-02	.2540	1.634	547.6
281	142.30	.43500	898.00	.5030-01	.3720-01	.5960-01	.9278	.2057-02	.3295-02	.2680	1.673	546.8
281	142.30	.45000	899.00	.4890-01	.3610-01	.5790-01	.9278	.1996-02	.3204-02	.2590	1.694	547.2
281	142.30	.50000	900.00	.4660-01	.3400-01	.5570-01	.9278	.1880-02	.3079-02	.2360	1.567	551.5
281	142.30	.60000	901.00	.5200-01	.3820-01	.6190-01	.9278	.2110-02	.3422-02	.2690	1.784	549.4
281	142.30	.70000	902.00	.4910-01	.3560-01	.5900-01	.9278	.1969-02	.3260-02	.2430	1.652	553.5
281	142.30	.80000	903.00	.5280-01	.3850-01	.6330-01	.9278	.2128-02	.3499-02	.2650	1.683	552.2
281	142.30	.87000	904.00	.5140-01	.3710-01	.6210-01	.9278	.2050-02	.3434-02	.2490	1.565	555.6
281	154.98	.42000	905.00	.4980-01	.3680-01	.5910-01	.9278	.2035-02	.3269-02	.2640	1.690	547.4
281	154.98	.43500	906.00	.5100-01	.3770-01	.6040-01	.9278	.2085-02	.3340-02	.2710	1.759	546.9
281	154.98	.45000	907.00	.4680-01	.3450-01	.5560-01	.9278	.1909-02	.3074-02	.2460	1.604	548.0
281	154.98	.50000	908.00	.4040-01	.2940-01	.4830-01	.9278	.1628-02	.2672-02	.2040	1.453	551.8
281	154.98	.93500	913.00	.2150-01	.1530-01	.2630-01	.9278	.8453-03	.1455-02	.9900-01	.7120	560.2
281	154.98	.94500	914.00	.3150-01	.2230-01	.3860-01	.9278	.1233-02	.2135-02	.1430	1.020	561.2
281	157.50	.70000-01	918.00	.3826	.2384	.4002	.9464	.1318-01	.2212-01	1.183	8.063	587.1
281	157.50	.80000-01	919.00	.3085	.2056	.3290	.9438	.1137-01	.1819-01	1.154	7.762	575.4
281	157.50	.10000+00	920.00	.1956	1379	.2152	.9391	.7626-02	.1190-01	.8750	5.802	562.1
281	157.50	.20000	922.00	.6760-01	.4960-01	.8050-01	.9279	.2744-02	.4450-02	.3490	2.321	549.7
281	157.50	.42000	923.00	.4580-01	.3390-01	.5430-01	.9278	.1874-02	.3001-02	.2440	1.590	546.8
281	157.50	.43500	924.00	.4490-01	.3330-01	.5320-01	.9278	.1840-02	.2943-02	.2400	1.571	546.4
281	157.50	.45000	925.00	.4510-01	.3340-01	.5340-01	.9278	.1845-02	.2954-02	.2400	1.585	546.8
281	157.50	.85000	926.00	.3280-01	.2380-01	.3940-01	.9278	.1319-02	.2181-02	.1630	1.051	553.3
281	157.50	.86000	927.00	.3090-01	.2240-01	.3710-01	.9278	.1239-02	.2049-02	.1530	.9900	553.3

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F15)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
281	157.50	.87000	928.00	.4390-01	.3180-01	.5290-01	.9278	.1757-02	.2923-02	.2150	1.396	554.3
281	157.50	.88000	929.00	.3140-01	.2260-01	.3790-01	.9278	.1252-02	.2094-02	.1520	.9910	555.4
281	157.50	.89000	930.00	.3020-01	.2160-01	.3660-01	.9278	.1194-02	.2026-02	.1420	.9290	558.0
281	157.50	.90000	931.00	.2300-01	.1650-01	.2790-01	.9278	.9108-03	.1541-02	.1090	.7300	557.4
281	157.50	.91000	932.00	.1080-01	.7800-02	.1310-01	.9278	.4301-03	.7262-03	.5200-01	.3750	557.0
281	157.50	.92600	933.00	.1290-01	.9200-02	.1570-01	.9278	.5098-03	.8700-03	.6000-01	.4360	558.8
281	163.12	.41500	934.00	.5040-01	.3750-01	.5950-01	.9278	.2072-02	.3289-02	.2740	1.776	544.9
281	163.12	.42000	935.00	.5370-01	.3980-01	.6360-01	.9278	.2202-02	.3517-02	.2880	1.885	546.2
281	163.12	.43000	937.00	.4610-01	.3410-01	.5460-01	.9278	.1887-02	.3021-02	.2460	1.612	546.7
281	163.12	.44000	938.00	.4710-01	.3480-01	.5590-01	.9278	.1926-02	.3090-02	.2500	1.635	547.1
281	163.12	.44500	939.00	.4460-01	.3290-01	.5290-01	.9278	.1821-02	.2925-02	.2360	1.567	547.3
281	163.12	.45000	940.00	.4470-01	.3300-01	.5310-01	.9278	.1827-02	.2934-02	.2370	1.571	547.3
281	163.12	.50000	941.00	.4220-01	.3090-01	.5050-01	.9278	.1707-02	.2792-02	.2150	1.452	551.2
281	163.12	.70000	943.00	.3710-01	.2690-01	.4470-01	.9278	.1488-02	.2470-02	.1830	1.251	554.0
281	163.12	.80000	944.00	.3500-01	.2540-01	.4210-01	.9278	.1402-02	.2327-02	.1720	1.121	554.0
281	168.00	.35000	945.00	.4510-01	.3350-01	.5330-01	.9278	.1853-02	.2945-02	.2440	1.549	545.1
281	168.00	.36000	946.00	.4560-01	.3400-01	.5380-01	.9278	.1879-02	.2973-02	.2490	1.587	544.2
281	168.00	.37500	948.00	.4340-01	.3220-01	.5130-01	.9278	.1781-02	.2834-02	.2340	1.494	545.4
281	168.00	.38500	950.00	.3850-01	.2870-01	.4540-01	.9278	.1589-02	.2503-02	.2120	1.367	543.6
281	168.00	.39000	951.00	.4250-01	.3160-01	.5020-01	.9278	.1748-02	.2777-02	.2310	1.496	545.0
281	168.00	.39500	952.00	.4290-01	.3190-01	.5070-01	.9278	.1762-02	.2801-02	.2320	1.484	545.2
281	168.00	.40000	953.00	.4390-01	.3260-01	.5190-01	.9278	.1800-02	.2869-02	.2360	1.537	545.8
281	168.00	.40500	954.00	.4470-01	.3320-01	.5290-01	.9278	.1833-02	.2927-02	.2400	1.565	546.1
281	168.00	.41000	955.00	.4570-01	.3390-01	.5410-01	.9278	.1873-02	.2992-02	.2450	1.597	546.2
281	168.00	.41500	956.00	.4740-01	.3510-01	.5610-01	.9278	.1941-02	.3099-02	.2540	1.661	546.1
281	168.00	.42000	957.00	.4700-01	.3490-01	.5560-01	.9278	.1928-02	.3072-02	.2530	1.660	545.7
281	168.00	.42500	958.00	.4860-01	.3600-01	.5750-01	.9278	.1993-02	.3179-02	.2610	1.714	545.9
281	168.00	.43000	959.00	.4910-01	.3640-01	.5810-01	.9278	.2013-02	.3213-02	.2640	1.725	546.0
281	168.00	.44000	960.00	.4950-01	.3670-01	.5860-01	.9278	.2031-02	.3239-02	.2660	1.747	545.9
281	168.00	.44500	961.00	.4600-01	.3400-01	.5460-01	.9278	.1882-02	.3018-02	.2440	1.602	547.1
281	168.00	.45500	963.00	.4440-01	.3280-01	.5270-01	.9278	.1811-02	.2912-02	.2340	1.545	547.6
281	168.00	.46000	964.00	.4170-01	.3080-01	.4950-01	.9278	.1701-02	.2742-02	.2190	1.454	548.1
281	168.00	.47000	965.00	.4150-01	.3050-01	.4930-01	.9278	.1688-02	.2725-02	.2170	1.444	548.4
281	168.00	.49000	966.00	.4280-01	.3140-01	.5090-01	.9278	.1736-02	.2816-02	.2210	1.485	549.5
281	168.00	.49000	967.00	.3920-01	.2890-01	.4660-01	.9278	.1595-02	.2574-02	.2050	1.377	548.4
281	168.00	.85000	968.00	.3280-01	.2380-01	.3950-01	.9278	.1314-02	.2184-02	.1610	1.041	554.3
281	168.00	.86000	969.00	.2980-01	.2150-01	.3590-01	.9278	.1186-02	.1987-02	.1440	.9320	555.7
281	168.00	.87000	970.00	.2990-01	.2150-01	.3620-01	.9278	.1189-02	.2000-02	.1430	.9310	556.3
281	168.00	.88000	971.00	.2950-01	.2110-01	.3590-01	.9278	.1167-02	.1984-02	.1390	.9020	558.2
281	168.00	.89000	972.00	.2970-01	.2110-01	.3630-01	.9278	.1169-02	.2005-02	.1370	.9040	559.7
281	168.00	.90000	973.00	.1920-01	.1370-01	.2330-01	.9278	.7589-03	.1290-02	.9000-01	.6090	558.2
281	168.00	.91000	974.00	.6800-02	.4900-02	.8300-02	.9278	.2700-03	.4563-03	.3200-01	.2350	557.2
281	168.00	.92600	975.00	.1040-01	.7400-02	.1270-01	.9278	.4083-03	.7039-03	.4800-01	.3420	560.5

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
281	168.00	.95000	976.00	.3960-01	.2790-01	.4850-01	.9278	.1544-02	.2684-02	.1780	1.269	561.8
281	180.00	.20000-01	982.00	.1503	.1093	.1398	.9600	.6044-02	.7728-02	.7510	5.206	552.7
281	180.00	.25000-01	983.00	.2455	.1743	.2304	.9580	.9638-02	.1274-01	1.125	7.720	560.2
281	180.00	.30000-01	984.00	.3779	.2557	.3560	.9564	.1414-01	.1968-01	1.479	10.02	572.3
104	180.00	.40000-01	600.00	.3754	.2591	.3593	.9550	.1434-01	.1989-01	1.576	10.01	571.1
104	180.00	.50000-01	601.00	.3854	.2676	.3797	.9517	.1481-01	.2101-01	1.649	10.51	569.7
104	180.00	.60000-01	602.00	.3868	.2569	.3921	.9487	.1422-01	.2170-01	1.442	9.451	579.6
104	180.00	.70000-01	603.00	.4494	.2810	.4729	.9459	.1556-01	.2618-01	1.413	9.439	590.2
104	180.00	.80000-01	604.00	.3097	.2120	.3302	.9433	.1174-01	.1828-01	1.267	8.134	573.1
104	180.00	.10000+00	605.00	.1858	.1321	.2045	.9387	.7310-02	.1132-01	.8610	6.129	563.2
104	180.00	.15000	606.00	.1111	.8000-01	.1305	.9309	.4429-02	.7221-02	.5390	3.893	559.4
104	180.00	.20000	607.00	.6550-01	.4850-01	.7750-01	.9279	.2684-02	.4291-02	.3520	2.292	549.9
104	180.00	.21000	608.00	.5100-01	.3780-01	.6030-01	.9278	.2095-02	.3335-02	.2770	1.911	548.9
104	180.00	.22000	609.00	.4240-01	.3150-01	.5020-01	.9278	.1744-02	.2777-02	.2310	1.714	548.8
104	180.00	.30000	610.00	.3190-01	.2380-01	.3760-01	.9278	.1315-02	.2080-02	.1760	1.203	547.3
104	180.00	.35000	611.00	.4530-01	.3390-01	.5330-01	.9278	.1878-02	.2949-02	.2540	1.694	545.7
104	180.00	.36000	612.00	.4090-01	.3060-01	.4810-01	.9278	.1693-02	.2662-02	.2290	1.537	546.0
104	180.00	.37000	613.00	.3940-01	.2940-01	.4630-01	.9278	.1628-02	.2563-02	.2200	1.476	546.2
104	180.00	.37500	614.00	.4120-01	.3080-01	.4850-01	.9278	.1704-02	.2685-02	.2290	1.542	546.4
104	180.00	.38000	615.00	.5140-01	.3850-01	.6050-01	.9278	.2130-02	.3348-02	.2880	1.935	545.9
104	180.00	.38500	616.00	.4540-01	.3400-01	.5340-01	.9278	.1883-02	.2957-02	.2550	1.714	545.7
104	180.00	.39000	617.00	.4400-01	.3290-01	.5170-01	.9278	.1823-02	.2862-02	.2470	1.655	545.7
104	180.00	.39500	618.00	.3930-01	.2940-01	.4610-01	.9278	.1627-02	.2553-02	.2210	1.488	545.5
104	180.00	.40000	619.00	.4160-01	.3110-01	.4880-01	.9278	.1723-02	.2704-02	.2340	1.567	545.4
104	180.00	.40500	620.00	.4460-01	.3340-01	.5250-01	.9278	.1850-02	.2905-02	.2500	1.684	545.7
104	180.00	.41000	621.00	.4940-01	.3690-01	.5810-01	.9278	.2045-02	.3214-02	.2760	1.857	545.9
104	180.00	.41500	622.00	.5090-01	.3810-01	.5980-01	.9278	.2107-02	.3311-02	.2850	1.911	545.8
104	180.00	.42500	624.00	.4580-01	.3410-01	.5400-01	.9278	.1886-02	.2991-02	.2510	1.681	547.9
104	180.00	.43000	625.00	.4330-01	.3220-01	.5110-01	.9278	.1783-02	.2831-02	.2370	1.592	548.1
104	180.00	.44000	626.00	.4500-01	.3350-01	.5310-01	.9278	.1855-02	.2939-02	.2470	1.662	547.7
104	180.00	.44500	627.00	.4300-01	.3200-01	.5070-01	.9278	.1771-02	.2805-02	.2360	1.600	547.7
104	180.00	.45000	628.00	.3980-01	.2960-01	.4700-01	.9278	.1639-02	.2600-02	.2180	1.478	548.0
104	180.00	.45500	629.00	.3860-01	.2880-01	.4550-01	.9278	.1593-02	.2521-02	.2130	1.465	547.5
104	180.00	.46000	630.00	.4020-01	.3000-01	.4740-01	.9278	.1659-02	.2626-02	.2220	1.489	547.5
104	180.00	.47000	631.00	.3950-01	.2930-01	.4670-01	.9278	.1624-02	.2583-02	.2150	1.445	548.6
104	180.00	.49000	633.00	.3720-01	.2760-01	.4400-01	.9278	.1527-02	.2435-02	.2020	1.374	549.1
104	180.00	.50000	634.00	.3030-01	.2250-01	.3580-01	.9278	.1246-02	.1982-02	.1650	1.153	548.6
104	180.00	.55000	635.00	.2770-01	.2060-01	.3280-01	.9278	.1138-02	.1818-02	.1500	.9930	549.5
104	180.00	.60000	636.00	.4100-01	.3040-01	.4850-01	.9278	.1681-02	.2687-02	.2210	1.421	549.7
104	180.00	.65000	637.00	.3950-01	.2920-01	.4680-01	.9278	.1615-02	.2592-02	.2110	1.361	550.5
104	180.00	.70000	638.00	.3730-01	.2740-01	.4430-01	.9278	.1518-02	.2455-02	.1960	1.335	552.2
104	180.00	.75000	639.00	.2560-01	.1850-01	.2970-01	.9278	.1025-02	.1642-02	.1340	.8640	550.2
104	180.00	.80000	640.00	.3530-01	.2620-01	.4180-01	.9278	.1452-02	.2314-02	.1920	1.199	549.1

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F15)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
104	180.00	.85000	641.00	.3810-01	.2820-01	.4510-01	.9278	.1561-02	.2495-02	.2050	1.294	549.7
104	180.00	.86000	642.00	.3840-01	.2840-01	.4550-01	.9278	.1571-02	.2521-02	.2050	1.313	550.5
104	180.00	.87000	643.00	.3840-01	.2830-01	.4560-01	.9278	.1566-02	.2523-02	.2030	1.307	551.3
104	180.00	.88000	644.00	.3720-01	.2740-01	.4430-01	.9278	.1518-02	.2450-02	.1960	1.272	551.8
104	180.00	.89000	645.00	.3770-01	.2780-01	.4480-01	.9278	.1537-02	.2482-02	.1980	1.303	551.9
104	180.00	.90000	646.00	.2180-01	.1620-01	.2580-01	.9278	.8966-03	.1430-02	.1180	.7930	549.2
104	180.00	.92600	648.00	.1740-01	.1280-01	.2060-01	.9278	.7098-03	.1142-02	.9200-01	.6710	551.1
104	180.00	.95000	649.00	.4800-01	.3530-01	.5710-01	.9278	.1952-02	.3163-02	.2510	1.806	552.6
104	191.25	.35000	650.00	.5310-01	.3960-01	.6250-01	.9278	.2191-02	.3462-02	.2940	1.973	547.1
104	191.25	.36000	651.00	.4610-01	.3440-01	.5430-01	.9278	.1905-02	.3005-02	.2560	1.724	546.8
104	191.25	.37000	652.00	.4720-01	.3520-01	.5560-01	.9278	.1950-02	.3076-02	.2620	1.761	546.7
104	191.25	.37500	653.00	.4530-01	.3380-01	.5330-01	.9278	.1870-02	.2951-02	.2510	1.692	546.8
104	191.25	.38000	654.00	.4660-01	.3480-01	.5480-01	.9278	.1928-02	.3036-02	.2600	1.752	546.3
104	191.25	.38500	655.00	.4510-01	.3370-01	.5300-01	.9278	.1863-02	.2936-02	.2510	1.690	546.5
104	191.25	.39000	656.00	.4550-01	.3390-01	.5350-01	.9278	.1879-02	.2962-02	.2530	1.703	546.6
104	191.25	.39500	657.00	.2740-01	.2050-01	.3240-01	.9278	.1132-02	.1791-02	.1510	1.021	547.3
104	191.25	.40000	658.00	.3090-01	.2310-01	.3630-01	.9278	.1277-02	.2011-02	.1720	1.163	546.3
104	191.25	.40500	659.00	.3650-01	.2730-01	.4300-01	.9278	.1511-02	.2381-02	.2030	1.375	546.5
104	191.25	.41000	660.00	.4520-01	.3380-01	.5330-01	.9278	.1869-02	.2948-02	.2510	1.694	546.7
104	191.25	.41500	661.00	.4540-01	.3390-01	.5340-01	.9278	.1878-02	.2957-02	.2530	1.700	546.3
104	191.25	.42000	662.00	.4710-01	.3510-01	.5550-01	.9278	.1942-02	.3073-02	.2600	1.750	547.4
104	191.25	.42500	663.00	.4610-01	.3440-01	.5430-01	.9278	.1903-02	.3004-02	.2550	1.725	546.9
104	191.25	.43000	664.00	.4710-01	.3510-01	.5550-01	.9278	.1943-02	.3070-02	.2600	1.777	547.0
104	191.25	.44000	665.00	.4640-01	.3460-01	.5470-01	.9278	.1918-02	.3029-02	.2570	1.743	547.0
104	191.25	.45000	666.00	.4820-01	.3600-01	.5680-01	.9278	.1992-02	.3142-02	.2670	1.814	546.8
104	191.25	.45500	667.00	.4550-01	.3390-01	.5360-01	.9278	.1879-02	.2967-02	.2520	1.708	547.0
104	191.25	.46000	668.00	.4700-01	.3510-01	.5530-01	.9278	.1943-02	.3063-02	.2610	1.778	546.6
104	191.25	.47000	669.00	.4840-01	.3620-01	.5700-01	.9278	.2002-02	.3157-02	.2690	1.837	546.6
104	191.25	.48000	670.00	.4750-01	.3550-01	.5590-01	.9278	.1965-02	.3095-02	.2650	1.805	546.4
104	191.25	.49000	671.00	.4820-01	.3590-01	.5690-01	.9278	.1986-02	.3147-02	.2650	1.800	547.8
104	191.25	.50000	672.00	.4830-01	.3600-01	.5690-01	.9278	.1992-02	.3148-02	.2670	1.853	547.2
104	191.25	.60000	673.00	.3840-01	.2850-01	.4530-01	.9278	.1577-02	.2508-02	.2090	1.339	548.6
104	191.25	.70000	674.00	.4030-01	.2970-01	.4790-01	.9278	.1644-02	.2652-02	.2130	1.443	551.7
104	191.25	.85000	676.00	.3070-01	.2280-01	.3620-01	.9278	.1260-02	.2006-02	.1670	1.053	548.8
104	191.25	.86000	677.00	.3330-01	.2460-01	.3940-01	.9278	.1364-02	.2179-02	.1790	1.145	549.6
104	191.25	.87000	678.00	.3810-01	.2820-01	.4510-01	.9278	.1560-02	.2498-02	.2040	1.314	550.1
104	191.25	.88000	679.00	.3570-01	.2630-01	.4240-01	.9278	.1457-02	.2347-02	.1890	1.231	551.3
104	191.25	.89000	680.00	.3330-01	.2450-01	.3960-01	.9278	.1359-02	.2192-02	.1760	1.161	551.7
104	191.25	.90000	681.00	.2170-01	.1600-01	.2580-01	.9278	.8872-03	.1428-02	.1150	.7750	551.2
104	191.25	.91000	682.00	.2800-02	.2100-02	.3300-02	.9278	.1169-03	.1851-03	.1600-01	.1140	547.7
104	191.25	.92600	683.00	.1320-01	.9700-02	.1570-01	.9278	.5389-03	.8691-03	.7000-01	.5090	551.6
104	191.25	.95000	684.00	.4000-01	.2940-01	.4760-01	.9278	.1627-02	.2633-02	.2090	1.507	552.4
104	197.00	.33000	685.00	.4810-01	.3580-01	.5660-01	.9278	.1983-02	.3135-02	.2660	1.784	547.2

(RV7F15)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TC) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
104	197.00	.34000	686.00	.4790-01	.3570-01	.5640-01	.9278	.1976-02	.3122-02	.2650	1.780	547.0
104	197.00	.35000	687.00	.5160-01	.3850-01	.6070-01	.9278	.2133-02	.3361-02	.2870	1.930	546.4
104	197.00	.36000	688.00	.4830-01	.3610-01	.5680-01	.9278	.1997-02	.3144-02	.2690	1.809	546.3
104	197.00	.37000	689.00	.4870-01	.3640-01	.5730-01	.9278	.2016-02	.3173-02	.2720	1.827	546.2
104	197.00	.37500	690.00	.5400-01	.4040-01	.6350-01	.9278	.2235-02	.3516-02	.3020	2.035	546.1
104	197.00	.50000	691.00	.4420-01	.3290-01	.5220-01	.9278	.1821-02	.2887-02	.2430	1.630	547.8
104	197.00	.60000	692.00	.4900-01	.3660-01	.5770-01	.9278	.2024-02	.3193-02	.2720	1.752	546.8
104	197.00	.70000	693.00	.4290-01	.3190-01	.5060-01	.9278	.1765-02	.2800-02	.2350	1.590	548.1
104	197.00	.80000	694.00	.4590-01	.3440-01	.5410-01	.9278	.1901-02	.2992-02	.2560	1.613	546.1
104	197.00	.87000	695.00	.4500-01	.3340-01	.5310-01	.9278	.1850-02	.2939-02	.2450	1.563	548.3
104	197.00	.92600	696.00	.3780-01	.2750-01	.4520-01	.9278	.1523-02	.2504-02	.1910	1.392	555.6
104	209.80	.15000-01	697.00	.1272	.9220-01	.1530	.9278	.5101-02	.8468-02	.6310	4.309	557.4
105	209.80	.30000-01	698.00	.4425	.3016	.4138	.9574	.1669-01	.2290-01	1.786	11.99	574.1
105	209.80	.50000-01	699.00	.4178	.2925	.4085	.9527	.1619-01	.2261-01	1.837	11.56	567.6
105	209.80	.70000-01	700.00	.4877	.3082	.5070	.9467	.1706-01	.2806-01	1.579	10.45	588.6
105	209.80	.10000+00	701.00	.2257	.1603	.2471	.9394	.8869-02	.1367-01	1.042	6.583	563.7
105	209.80	.15000	702.00	.1175	.8510-01	.1369	.9313	.4712-02	.7578-02	.5830	4.146	557.4
105	209.80	.20000	703.00	.6490-01	.4810-01	.7670-01	.9280	.2663-02	.4246-02	.3500	2.331	549.5
105	209.80	.30000	704.00	.4340-01	.3230-01	.5120-01	.9278	.1788-02	.2832-02	.2380	1.688	547.8
105	209.80	.35000	705.00	.4630-01	.3460-01	.5450-01	.9278	.1917-02	.3015-02	.2590	1.772	546.1
105	209.80	.37500	706.00	.4030-01	.3020-01	.4730-01	.9278	.1671-02	.2616-02	.2270	1.563	545.0
105	209.80	.50000	707.00	.4300-01	.3210-01	.5070-01	.9278	.1775-02	.2805-02	.2380	1.627	547.2
105	209.80	.60000	708.00	.4120-01	.3090-01	.4850-01	.9278	.1708-02	.2682-02	.2310	1.476	545.7
105	209.80	.70000	709.00	.4700-01	.3500-01	.5540-01	.9278	.1940-02	.3066-02	.2600	1.655	547.2
105	209.80	.80000	710.00	.4670-01	.3490-01	.5500-01	.9278	.1933-02	.3042-02	.2610	.625	546.2
105	209.80	.87000	711.00	.4600-01	.3420-01	.5430-01	.9278	.1895-02	.3007-02	.2520	.591	548.1
105	209.80	.92600	712.00	.1600-01	.1200-01	.1890-01	.9278	.6615-03	.1047-02	.8800-01	.6420	547.6
105	217.70	.30000-01	714.00	.4322	.2941	.4019	.9580	.1627-01	.2224-01	1.734	11.64	574.5
105	217.70	.50000-01	715.00	.4277	.2990	.4161	.9532	.1655-01	.2303-01	1.874	12.10	567.9
105	217.70	.70000-01	716.00	.4985	.3103	.5158	.9472	.1718-01	.2854-01	1.550	10.35	590.9
105	217.70	.10000+00	717.00	.2262	.1611	.2464	.9398	.8915-02	.1364-01	1.055	6.789	562.8
105	217.70	.15000	718.00	.1249	.9060-01	.1452	.9316	.5012-02	.8034-02	.6210	4.521	557.2
105	217.70	.20000	719.00	.7380-01	.5500-01	.8690-01	.9280	.3042-02	.4808-02	.4060	2.735	547.7
105	217.70	.30000	720.00	.4400-01	.3280-01	.5190-01	.9278	.1814-02	.2874-02	.2420	1.728	547.8
105	217.70	.35000	721.00	.4760-01	.3550-01	.5590-01	.9278	.1967-02	.3096-02	.2650	1.841	546.2
105	217.70	.37500	722.00	.4500-01	.3370-01	.5290-01	.9278	.1865-02	.2928-02	.2530	1.753	545.6
105	217.70	.50000	723.00	.4260-01	.3180-01	.5020-01	.9278	.1762-02	.2776-02	.2370	1.640	546.4
105	217.70	.60000	724.00	.4790-01	.3590-01	.5630-01	.9278	.1986-02	.3118-02	.2690	1.721	545.7
105	217.70	.70000	725.00	.5040-01	.3760-01	.5930-01	.9278	.2083-02	.3280-02	.2810	1.786	546.3
105	217.70	.80000	726.00	.4720-01	.3530-01	.5550-01	.9278	.1953-02	.3069-02	.2640	1.660	545.9
105	217.70	.87000	727.00	.4850-01	.3610-01	.5720-01	.9278	.2001-02	.3163-02	.2680	1.711	547.3

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F15)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = 5.000 BETA = .0000 GRIT = 3.000 RN/L = 5.000

•••TEST CONDITIONS•••

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
84	4.520	5.031	4.980	.0000	.0000	97.10	.3270	667.0	131.1	4.681	2536.	.2094-03
85	4.520	5.034	5.000	.0000	.0000	97.20	.3280	667.0	131.1	4.684	2536.	.2096-03
86	4.520	5.039	5.000	.0000	.0000	97.30	.3280	667.0	131.1	4.688	2536.	.2097-03
262	4.520	4.945	4.980	.0000	.0000	94.80	.3200	664.0	130.6	4.570	2531.	.2054-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
84	.1056-06	.4741-01	.1142-01
85	.1056-06	.4743-01	.1142-01
86	.1056-06	.4744-01	.1141-01
262	.1051-06	.4682-01	.1153-01

•••TEST DATA•••

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
85	.00000	.30000-02	730.00	.4949	.3266	.3944	.9747	.1549-01	.1870-01	1.519	10.32	568.9
85	.00000	.10300-01	731.00	.1633	.1175	.2146	.9193	.5572-02	.1018-01	.6620	4.559	548.1
85	.00000	.15000-01	732.00	.1317	.9410-01	.1743	.9193	.4464-02	.8265-02	.5220	3.547	550.0
85	.00000	.20000-01	733.00	.2402	.1644	.2010	.9712	.7798-02	.9533-02	.8240	5.618	561.3
85	.00000	.25000-01	734.00	.5932	.3541	.4716	.9691	.1679-01	.2237-01	1.389	9.278	584.2
85	.00000	.30000-01	735.00	.6879	.4224	.5645	.9674	.2003-01	.2677-01	1.731	11.65	590.6
85	.00000	.40000-01	737.00	.4534	.3038	.3923	.9658	.1441-01	.1860-01	1.456	9.409	565.9
85	.00000	.45000-01	738.00	.4159	.2816	.3669	.9640	.1335-01	.1740-01	1.379	9.052	563.7
85	.00000	.60000-01	739.00	.4753	.3110	.4356	.9586	.1475-01	.2066-01	1.423	9.448	570.5
85	.00000	.70000-01	740.00	.5376	.3337	.5055	.9552	.1583-01	.2397-01	1.392	9.260	579.0
85	.00000	.80000-01	741.00	.3766	.2515	.3696	.9519	.1193-01	.1753-01	1.197	8.614	566.6
85	.00000	.10000+00	742.00	.2899	.2007	.3014	.9457	.9517-02	.1429-01	1.031	6.847	558.6
85	.00000	.12500	743.00	.2210	.1520	.2461	.9388	.7210-02	.1167-01	.7700	5.564	560.1
85	.00000	.15000	744.00	.1756	.1233	.2057	.9327	.5849-02	.9754-02	.6560	4.539	554.9
85	.00000	.17500	745.00	.1178	.8450-01	.1430	.9276	.4008-02	.6783-02	.4730	3.550	549.0
85	.00000	.20000	746.00	.8240-01	.6000-01	.1026	.9236	.2845-02	.4868-02	.3490	2.499	544.3

(RV7F15)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
85	.00000	.21500	747.00	.7770-01	.5660-01	.9850-01	.9216	.2686-02	.4673-02	.3300	2.291	544.1
85	.00000	.23000	748.00	.5710-01	.4140-01	.7370-01	.9201	.1965-02	.3495-02	.2390	1.769	545.3
85	.00000	.24000	749.00	.5060-01	.3670-01	.6590-01	.9193	.1740-02	.3127-02	.2110	1.591	545.8
85	.00000	.25000	750.00	.2620-01	.1900-01	.3410-01	.9193	.9018-03	.1618-02	.1100	.6870	545.4
85	.00000	.30000	751.00	.5740-01	.4160-01	.7460-01	.9193	.1974-02	.3539-02	.2400	1.578	545.3
85	.00000	.35000	752.00	.5730-01	.4210-01	.7360-01	.9193	.1997-02	.3489-02	.2510	1.593	541.2
85	.00000	.40000	753.00	.5480-01	.4020-01	.7030-01	.9193	.1909-02	.3334-02	.2400	1.549	541.1
85	.00000	.50000	754.00	.4950-01	.3590-01	.6460-01	.9193	.1702-02	.3064-02	.2060	1.349	545.9
85	.00000	.60000	755.00	.5710-01	.4170-01	.7380-01	.9193	.1977-02	.3499-02	.2440	1.570	543.3
85	.00000	.70000	756.00	.4520-01	.3240-01	5960-01	.9193	.1535-02	.2828-02	.1810	1.191	549.3
85	.00000	.80000	757.00	.5160-01	.3760-01	.6670-01	.9193	.1785-02	.3161-02	.2210	1.385	543.4
85	.00000	.90000	758.00	.2060-01	.1500-01	.2670-01	.9193	.7104-03	.1265-02	.8700-01	.5640	544.3
85	55.000	.22000	759.00	.5470-01	.4030-01	.6970-01	.9199	.1911-02	.3303-02	.2420	1.809	540.2
85	55.000	.25000	760.00	.2500-01	.1830-01	.3230-01	.9187	.8691-03	.1533-02	.1090	.8550	54[illegible].7
85	55.000	.27000	761.00	.3370-01	.2450-01	.4400-01	.9187	.1163-02	.2088-02	.1420	1.060	544.6
85	55.000	.30000	762.00	.5350-01	.3930-01	.6910-01	.9187	.1964-02	.3276-02	.2350	1.414	541.2
85	55.000	.32000	763.00	.5380-01	.3980-01	.6900-01	.9187	.1887-02	.3273-02	.2420	1.436	538.9
85	55.000	.34000	764.00	.5800-01	.4300-01	.7420-01	.9187	.2041-02	.3520-02	.2630	1.569	537.9
85	55.000	.36000	765.00	.5170-01	.3840-01	.6590-01	.9187	.1821-02	.3128-02	.2360	1.428	537.2
85	55.000	.38000	766.00	.4980-01	.3700-01	.6350-01	.9187	.1756-02	.3012-02	.2280	1.395	536.9
85	55.000	.40000	767.00	.4900-01	.3650-01	.6240-01	.9187	.1730-02	.2959-02	.2260	1.419	536.4
85	67.500	.23000	768.00	.4980-01	.3670-01	.6400-01	.9189	.1741-02	.3033-02	.2210	1.651	540.0
85	67.500	.25000	769.00	.1900-01	.1390-01	.2450-01	.9185	.6615-03	.1162-02	.8400-01	.6520	540.7
85	67.500	.27000	770.00	.3930-01	.2870-01	.5120-01	.9185	.1363-02	.2430-02	.1690	1.233	543.2
85	67.500	.29000	771.00	.4150-01	.3050-01	.5380-01	.9185	.1448-02	.2573-02	.1820	1.133	541.1
85	67.500	.30000	772.00	.4500-01	.3310-01	.5830-01	.9185	.1570-02	.2765-02	.1980	1.211	541.2
85	67.500	.31000	773.00	.5260-01	.3880-01	.6780-01	.9185	.1831-02	.3218-02	.2340	1.424	539.9
85	67.500	.32000	774.00	.5230-01	.3870-01	.6710-01	.9185	.1837-02	.3181-02	.2360	1.427	538.3
85	67.500	.32500	775.00	.4610-01	.3420-01	.5910-01	.9185	.1621-02	.2801-02	.2090	1.267	537.9
85	67.500	.33000	776.00	.4890-01	.3630-01	.6260-01	.9185	.1721-02	.2969-02	.2230	1.352	537.6
85	67.500	.33500	777.00	.5230-01	.3890-01	.6690-01	.9185	.1844-02	.3171-02	.2400	1.456	537.0
85	67.500	.34000	778.00	.5190-01	.3850-01	.6630-01	.9185	.1828-02	.3146-02	.2370	1.442	537.2
85	67.500	.34500	779.00	.5250-01	.3910-01	.6710-01	.9185	.1853-02	.3184-02	.2410	1.468	536.9
85	67.500	.35000	780.00	.5180-01	.3860-01	.6620-01	.9185	.1830-02	.3139-02	.2380	1.457	536.6
85	67.500	.35500	781.00	.4910-01	.3650-01	.6270-01	.9185	.1731-02	.2974-02	.2250	1.379	536.9
85	67.500	.36000	782.00	.5340-01	.3970-01	.6820-01	.9185	.1885-02	.3236-02	.2450	1.504	536.7
85	67.500	.36500	783.00	.4830-01	.3600-01	.6160-01	.9185	.1707-02	.2923-02	.2230	1.364	536.3
85	67.500	.37000	784.00	.4770-01	.3550-01	.6090-01	.9185	.1685-02	.2887-02	.2200	1.352	536.4
85	67.500	.37500	785.00	.4360-01	.3250-01	.5560-01	.9185	.1541-02	.2639-02	.2010	1.247	536.3
85	67.500	.38000	786.00	.4340-01	.3230-01	.5530-01	.9185	.1530-02	.2624-02	.2000	1.240	536.5
85	67.500	.39000	787.00	.5020-01	.3730-01	.6410-01	.9185	.1771-02	.3038-02	.2310	1.437	536.6
85	67.500	.40000	788.00	.5130-01	.3820-01	.6550-01	.9185	.1811-02	.3107-02	.2360	1.483	536.6
86	67.500	.50000	789.00	.4110-01	.3020-01	.5310-01	.9185	.1434-02	.2517-02	.1810	1.165	540.7

(IH41(AEDC V41A-A4A) T3 NIPPLE NOSE E; (RV7F15)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
262	67.500	.60000	790.00	.8200-01	.5860-01	.9830-01	.9293	.3248-02	.5447-02	.3870	2.523	561.8
262	67.500	.70000	791.00	.8800-01	.6080-01	.1079	.9293	.3371-02	.5984-02	.3720	2.595	570.7
262	67.500	.80000	792.00	.9450-01	.6590-01	.1153	.9293	.3652-02	.6389-02	.4110	2.552	568.8
262	67.500	.90000	793.00	.6470-01	.4280-01	.8210-01	.9293	.2373-02	.4553-02	.2390	1.514	580.4
262	78.000	.27000	794.00	.7020-01	.4960-01	.8500-01	.9290	.2750-02	.4712-02	.3190	2.256	565.0
262	78.000	.29000	795.00	.1090	.7640-01	.1328	.9290	.4235-02	.7364-02	.4820	2.938	567.3
86	78.000	.30000	796.00	.4580-01	.3390-01	.5880-01	.9184	.1608-02	.2790-02	.2070	1.257	538.4
86	78.000	.31000	797.00	.4540-01	.3370-01	.5830-01	.9184	.1600-02	.2764-02	.2070	1.260	537.6
86	78.000	.32000	798.00	.4660-01	.3460-01	.5960-01	.9184	.1644-02	.2827-02	.2140	1.296	536.8
86	78.000	.32500	799.00	.4910-01	.3650-01	.6280-01	.9184	.1734-02	.2978-02	.2260	1.373	536.6
86	78.000	.33000	800.00	.4810-01	.3580-01	.6140-01	.9184	.1700-02	.2911-02	.2220	1.351	536.1
86	78.000	.33500	801.00	.5150-01	.3840-01	.6580-01	.9184	.1822-02	.3121-02	.2380	1.448	536.1
86	78.000	.34000	802.00	.4520-01	.3370-01	.5760-01	.9184	.1600-02	.2732-02	.2100	1.277	535.6
86	78.000	.34500	803.00	.4700-01	.3510-01	.5990-01	.9184	.1664-02	.2842-02	.2180	1.332	535.6
86	78.000	.35000	804.00	.4760-01	.3550-01	.6060-01	.9184	.1685-02	.2877-02	.2220	1.351	535.4
86	78.000	.35500	805.00	.4930-01	.3680-01	.6280-01	.9184	.1747-02	.2981-02	.2300	1.401	535.4
86	78.000	.36000	806.00	.2750-01	.2050-01	.3500-01	.9184	.9736-03	.1661-02	.1280	.7830	535.4
86	78.000	.36500	807.00	.4830-01	.3610-01	.6150-01	.9184	.1711-02	.2920-02	.2250	1.379	535.4
86	78.000	.37000	808.00	.4600-01	.3430-01	.5860-01	.9184	.1627-02	.2778-02	.2140	1.315	535.5
86	78.000	.37500	809.00	.4860-01	.3630-01	.6200-01	.9184	.1721-02	.2941-02	.2260	1.388	535.6
86	78.000	.38000	810.00	.4440-01	.3320-01	.5660-01	.9184	.1573-02	.2697-02	.2070	1.278	535.5
86	78.000	.39000	811.00	.4060-01	.3030-01	.5180-01	.9184	.1437-02	.2456-02	.1890	1.169	535.6
86	78.000	.40000	812.00	.4340-01	.3240-01	.5530-01	.9184	.1535-02	.2622-02	.2020	1.250	535.5
262	90.000	.40000-01	985.00	.4264	.2794	.3971	.9570	.1308-01	.1859-01	1.259	8.105	567.7
262	90.000	.50000-01	986.00	.4228	.2794	.4082	.9535	.1308-01	.1911-01	1.281	8.203	566.1
262	90.000	.60000-01	987.00	.3791	.2416	.3796	.9501	.1131-01	.1773-01	1.035	6.726	572.5
262	90.000	.80000-01	989.00	.3120	.2052	.3334	.9438	.9606-02	.1561-01	.9320	6.534	567.0
262	90.000	.15000	991.00	.1162	.8040-01	.1461	.9270	.3762-02	.6842-02	.4050	2.960	556.3
86	90.000	.20000	813.00	.3890-01	.2900-01	.4970-01	.9184	.1374-02	.2350-02	.1790	1.307	536.7
86	90.000	.24000	814.00	.2830-01	.2100-01	.3620-01	.9183	.9948-03	.1720-02	.1290	1.045	537.6
86	90.000	.27000	816.00	.2850-01	.2110-01	.3670-01	.9183	.9992-03	.1742-02	.1260	.9110	539.1
86	90.000	.29000	917.00	.3630-01	.2690-01	.4660-01	.9183	.1277-02	.2212-02	.1650	1.028	538.0
86	90.000	.30000	818.00	.4410-01	.3270-01	.5660-01	.9183	.1550-02	.2686-02	.2000	1.227	538.0
86	90.000	.31000	819.00	.4750-01	.3530-01	.6090-01	.9183	.1676-02	.2888-02	.2180	1.325	537.1
86	90.000	.32000	820.00	.4690-01	.3490-01	.5930-01	.9183	.1654-02	.2842-02	.2160	1.311	536.5
86	90.000	.32500	821.00	.4500-01	.3360-01	.5740-01	.9183	.1593-02	.2724-02	.2090	1.257	535.7
86	90.000	.33000	822.00	.4690-01	.3500-01	.5970-01	.9183	.1659-02	.2834-02	.2180	1.327	535.4
86	90.000	.33500	823.00	.4520-01	.3370-01	.5750-01	.9183	.1600-02	.2728-02	.2110	1.286	535.1
86	90.000	.34000	824.00	.4520-01	.3380-01	.5750-01	.9183	.1602-02	.2730-02	.2110	1.281	535.0
86	90.000	.34500	825.00	.4670-01	.3490-01	.5940-01	.9183	.1656-02	.2820-02	.2190	1.329	534.9
86	90.000	.35000	826.00	.4700-01	.3510-01	.5980-01	.9183	.1666-02	.2836-02	.2200	1.337	534.9
86	90.000	.36000	828.00	.3590-01	.2990-01	.4950-01	.9183	.1378-02	.2347-02	.1820	1.103	534.9
86	90.000	.37000	830.00	.4260-01	.3190-01	.5420-01	.9183	.1513-02	.2571-02	.2000	1.222	534.5

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
86	90.000	.37500	831.00	.4380-01	.3280-01	.5570-01	.9183	.1556-02	.2642-02	.2060	1.264	534.4
86	90.000	.38000	832.00	.4380-01	.3280-01	.5580-01	.9183	.1554-02	.2646-02	.2050	1.259	534.8
86	90.000	.39000	333.00	.3970-01	.2970-01	.5040-01	.9183	.1408-02	.2393-02	.1860	1.155	534.6
86	90.000	.40000	834.00	.4120-01	.3080-01	.5240-01	.9183	.1460-02	.2486-02	.1930	1.197	534.9
86	90.000	.50000	835.00	.3830-01	.2830-01	.4930-01	.9183	.1343-02	.2338-02	.1720	1.092	538.8
86	90.000	.60000	836.00	.3810-01	.2850-01	.4840-01	.9183	.1352-02	.2296-02	.1790	1.201	534.4
86	90.000	.70000	837.00	.3530-01	.2630-01	.4510-01	.9183	.1247-02	.2138-02	.1630	1.155	536.1
86	90.000	.80000	838.00	.3420-01	.2580-01	.4310-01	.9183	.1224-02	.2046-02	.1660	1.039	531.3
86	90.000	.90000	839.00	.2360-01	.1780-01	.2980-01	.9183	.8459-03	.1415-02	.1150	.7390	531.4
86	112.50	.23000	840.00	.2910-01	.2170-01	.3710-01	.9183	.1029-02	.1762-02	.1350	1.092	535.9
86	112.50	.25000	841.00	.9700-02	.7200-02	.1240-01	.9183	.3429-03	.5882-03	.4500-01	.3490	536.3
86	112.50	.27000	842.00	.1230-01	.9200-02	.1580-01	.9183	.4351-03	.7497-03	.5600-01	.3970	537.1
86	112.50	.30000	843.00	.3900-01	.2890-01	.4990-01	.9183	.1373-02	.2369-02	.1780	1.063	537.3
86	112.50	.33000	844.00	.4290-01	.3200-01	.5470-01	.9183	.1520-02	.2594-02	.2000	1.213	535.3
86	112.50	.35000	845.00	.4100-01	.3070-01	.5220-01	.9183	.1456-02	.2475-02	.1930	1.187	534.6
86	112.50	.37000	846.00	.3930-01	.2940-01	.5000-01	.9183	.1396-02	.2373-02	.1950	1.146	534.5
86	112.50	.40000	847.00	.3560-01	.2670-01	.4530-01	.9183	.1266-02	.2148-02	.1680	1.054	534.2
86	112.50	.45000	848.00	.3560-01	.2660-01	.4530-01	.9183	.1264-02	.2151-02	.1670	1.056	534.8
86	112.50	.50000	849.00	.3520-01	.2610-01	.4520-01	.9183	.1237-02	.2143-02	.1590	1.030	538.0
86	112.50	.55000	850.00	.2870-01	.2130-01	.3680-01	.9183	.1011-02	.1744-02	.1310	.8800	537.3
86	112.50	.60000	851.00	.3530-01	.2640-01	.4470-01	.9183	.1254-02	.2123-02	.1670	1.127	533.7
86	112.50	.65000	852.00	.3770-01	.2830-01	.4770-01	.9183	.1340-02	.2269-02	.1790	1.225	533.4
86	112.50	.70000	853.00	.2960-01	.2200-01	.3780-01	.9183	.1045-02	.1794-02	.1360	.9620	536.4
86	112.50	.75000	854.00	.2120-01	.1580-01	.2690-01	.9183	.7514-03	.1276-02	.1000+00	.6500	534.4
86	112.50	.80000	855.00	.3420-01	.2580-01	.4320-01	.9183	.1222-02	.2049-02	.1650	1.081	531.9
86	112.50	.90000	856.00	.1910-01	.1440-01	.2410-01	.9183	.6839-03	.1145-02	.9300-01	.6050	531.6
86	125.40	.84000	857.00	.2920-01	.2210-01	.3670-01	.9183	.1047-02	.1743-02	.1430	.8300	530.4
86	125.40	.85000	858.00	.3040-01	.2300-01	.3840-01	.9183	.1090-02	.1820-02	.1480	.9280	531.0
86	125.40	.86000	859.00	.3110-01	.2350-01	.3920-01	.9183	.1113-02	.1861-02	.1510	.9540	531.2
86	125.40	.87000	860.00	.2990-01	.2260-01	.3770-01	.9183	.1068-02	.1788-02	.1450	.9150	531.6
86	125.40	.88000	861.00	.3120-01	.2350-01	.3950-01	.9183	.1115-02	.1873-02	.1500	.9510	532.2
86	125.40	.89000	862.00	.3470-01	.2610-01	.4390-01	.9183	.1238-02	.2082-02	.1660	1.060	532.5
86	125.40	.90000	863.00	.2810-01	.2110-01	.3540-01	.9183	.1002-02	.1681-02	.1350	.8660	532.0
86	125.40	.91000	864.00	.1700-01	.1290-01	.2140-01	.9183	.6103-03	.1013-02	.8400-01	.6130	529.9
86	125.40	.92600	865.00	.1650-01	.1240-01	.2100-01	.9183	.5888-03	.9953-03	.7900-01	.5730	533.5
86	129.30	.80000	866.00	.1380-01	.1040-01	.1740-01	.9183	.4924-03	.8247-03	.6700-01	.4220	531.7
86	129.30	.81000	867.00	.2440-01	.1840-01	.3070-01	.9183	.8752-03	.1459-02	.1190	.7510	530.7
86	129.30	.82000	868.00	.3250-01	.2460-01	.4090-01	.9183	.1169-02	.1939-02	.1600	1.010	529.7
86	129.30	.83000	869.00	.3070-01	.2320-01	.3850-01	.9183	.1101-02	.1827-02	.1510	.9540	529.8
86	135.00	.40000-01	870.00	.3999	.2785	.3954	.9513	.1321-01	.1876-01	1.45	9.279	557.1
86	135.00	.50000-01	871.00	.4140	.2903	.4216	.9479	.1377-01	.2000-01	1.538	9.787	555.3
86	135.00	.60000-01	872.00	.3970	.2715	.4176	.9447	.1288-01	.1981-01	1.359	8.356	561.4
86	135.00	.70000-01	873.00	.4099	.2707	.4488	.9416	.1284-01	.2129-01	1.260	8.181	569.7

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F15)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
86	135.00	.10000+00	875.00	.1887	.1365	.2159	.9335	.6476-02	.1024-01	.7810	5.124	546.3
86	135.00	.15000	876.00	.1079	.7890-01	.1337	.9238	.3742-02	.6341-02	.4540	3.403	542.9
86	135.00	.20000	877.00	.5180-01	.3860-01	.6570-01	.9188	.1833-02	.3119-02	.2410	1.633	535.5
86	135.00	.35000	878.00	.4050-01	.3030-01	.5150-01	.9183	.1437-02	.2444-02	.1900	1.189	534.6
86	135.00	.40000	879.00	.3250-01	.2430-01	.4130-01	.9183	.1153-02	.1952-02	.1520	.9710	534.8
86	135.00	.50000	880.00	.2660-01	.1970-01	.3410-01	.9183	.9346-03	.1620-02	.1200	.8300	538.1
86	135.00	.55000	881.00	.2410-01	.1790-01	.3090-01	.9183	.8506-03	.1464-02	.1110	.7410	536.8
86	135.00	.60000	882.00	.3300-01	.2470-01	.4180-01	.9183	.1174-02	.1985-02	.1570	1.059	533.5
86	135.00	.65000	883.00	.3330-01	.2500-01	.4200-01	.9183	.1187-02	.1993-02	.1600	1.100	532.1
86	135.00	.70000	884.00	.3160-01	.2360-01	.4020-01	.9183	.1122-02	.1906-02	.1490	1.062	534.5
86	135.00	.75000	885.00	.2720-01	.2040-01	.3450-01	.9183	.9700-03	.1638-02	.1300	.8220	533.3
262	135.00	.80000	886.00	.9460-01	.6650-01	.1164	.9278	.3682-02	.6449-02	.4220	2.625	566.4
262	135.00	.84000	887.00	.7590-01	.5990-01	.9460-01	.9130	.2678-02	.4234-02	.0000	.0000	244.7
262	135.00	.85000	888.00	.2590-01	.1850-01	.3450-01	.9183	.8678-03	.1616-02	.1020	.6450	546.8
262	135.00	.87000	890.00	.2650-01	.1890-01	.3540-01	.9183	.8861-03	.1659-02	.1030	.6560	547.5
262	135.00	.88000	891.00	.2640-01	.1890-01	.3550-01	.9183	.8830-03	.1660-02	.1020	.6540	548.1
262	135.00	.89000	892.00	.2470-01	.1770-01	.3310-01	.9183	.8267-03	.1550-02	.9600-01	.6250	547.7
262	135.00	.91000	894.00	.7300-02	.5200-02	.9600-02	.9183	.2450-03	.4510-03	.2900-01	.2120	545.2
262	135.00	.92600	895.00	.1400-01	.1000-01	.1860-01	.9183	.4690-03	.8725-03	.5500-01	.4000	546.7
262	135.00	.95000	896.00	.3100-01	.2210-01	.4180-01	.9183	.1034-02	.1958-02	.1190	.8570	549.1
262	142.30	.42000	897.00	.2990-01	.2160-01	.3970-01	.9183	.1009-02	.1858-02	.1200	.7710	545.3
262	142.30	.43500	898.00	.3200-01	.2320-01	.4230-01	.9183	.1084-02	.1979-02	.1300	.8140	544.1
262	142.30	.45000	899.00	.2860-01	.2070-01	.3780-01	.9183	.9689-03	.1770-02	.1160	.7610	544.2
262	142.30	.50000	900.00	.2940-01	.2130-01	.3880-01	.9183	.9982-03	.1817-02	.1200	.8020	543.6
262	142.30	.60000	901.00	.3240-01	.2330-01	.4300-01	.9183	.1090-02	.2013-02	.1290	.8580	545.6
262	142.30	.70000	902.00	.2880-01	.2070-01	.3840-01	.9183	.9706-03	.1796-02	.1150	.7820	545.9
262	142.30	.80000	903.00	.2760-01	.1980-01	.3690-01	.9183	.9252-03	.1726-02	.1080	.6880	547.0
262	142.30	.87000	904.00	.2710-01	.1930-01	.3640-01	.9183	.9033-03	.1703-02	.1040	.6590	548.5
262	154.98	.42000	905.00	.3250-01	.2340-01	.4310-01	.9183	.1096-02	.2018-02	.1300	.8400	545.3
262	154.98	.43500	906.00	.2910-01	.2100-01	.3840-01	.9183	.9822-03	.1799-02	.1170	.7620	544.5
262	154.98	.45000	907.00	.2900-01	.2090-01	.3840-01	.9183	.9789-03	.1799-02	.1160	.7610	545.0
262	154.98	.50000	908.00	.2660-01	.1920-01	.3520-01	.9183	.9010-03	.1646-02	.1080	.7730	544.2
262	154.98	.93500	913.00	.1560-01	.1110-01	.2090-01	.9183	.5212-03	.9792-03	.6000-01	.4390	548.0
262	154.98	.94500	914.00	.2150-01	.1530-01	.2900-01	.9183	.7168-03	.1358-02	.8200-01	.5920	549.1
262	157.50	.70000-01	918.00	.3157	.2058	.3530	.9401	.9635-02	.1653-01	.9190	6.319	568.6
262	157.50	.80000-01	919.00	.2844	.1858	.3288	.9373	.8698-02	.1539-01	.6330	5.621	568.3
262	157.50	.10000+00	920.00	.1570	.1085	.1866	.9322	.5079-02	.8735-02	.5460	3.631	556.5
262	157.50	.20000	922.00	.3560-01	.2570-01	.4700-01	.9186	.1204-02	.2199-02	.1440	.9600	544.4
262	157.50	.42000	923.00	.2870-01	.2070-01	.3810-01	.9183	.9699-03	.1782-02	.1150	.7540	545.0
262	157.50	.43500	924.00	.2710-01	.1960-01	.3580-01	.9183	.9154-03	.1674-02	.1100	.7130	544.3
262	157.50	.45000	925.00	.2720-01	.1970-01	.3590-01	.9183	.9219-03	.1683-02	.1110	.7310	544.0
262	157.50	.85000	926.00	.1950-01	.1400-01	.2600-01	.9183	.6534-03	.1218-02	.7500-01	.4943	547.0
262	157.50	.86000	927.00	.1880-01	.1350-01	.2510-01	.9183	.6334-03	.1175-02	.7500-01	.4840	546.3

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F15)

(IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
262	157.50	.87000	928.00	.1890-01	.1360-01	.2530-01	.9183	.6358-03	.1183-02	.7500-01	.4850	546.8
262	157.50	.88000	929.00	.1850-01	.1320-01	.2470-01	.9183	.6188-03	.1155-02	.7200-01	.4730	547.1
262	157.50	.89000	930.00	.1780-01	.1270-01	.2400-01	.9183	.5960-03	.1121-02	.6900-01	.4540	548.2
262	157.50	.90000	931.00	.1320-01	.9500-02	.1770-01	.9183	.4445-03	.8274-03	.5200-01	.3510	546.8
262	157.50	.91000	932.00	.3300-02	.2400-02	.4400-02	.9183	.1113-03	.2060-03	.1300-01	.9600-01	545.9
262	157.50	.92600	933.00	.7800-02	.5600-02	.1050-01	.9183	.2626-03	.4901-03	.3100-01	.2240	547.1
262	163.12	.41500	934.00	.3010-01	.2180-01	.3980-01	.9183	.1021-02	.1864-02	.1220	.7950	544.1
262	163.12	.42000	935.00	.2890-01	.2080-01	.3820-01	.9183	.9739-03	.1790-02	.1160	.7590	545.0
262	163.12	.43000	937.00	.2750-01	.1980-01	.3640-01	.9183	.9272-03	.1705-02	.1100	.7240	545.1
262	163.12	.44000	938.00	.2700-01	.1950-01	.3590-01	.9183	.9124-03	.1679-02	.1080	.7100	545.2
262	163.12	.44500	939.00	.2560-01	.1840-01	.3380-01	.9183	.8632-03	.1584-02	.1030	.6840	544.8
262	163.12	.45000	940.00	.2640-01	.1900-01	.3490-01	.9183	.8900-03	.1635-02	.1060	.7040	544.9
262	163.12	.50000	941.00	.2820-01	.2040-01	.3710-01	.9183	.9557-03	.1739-02	.1150	.7820	543.5
262	163.12	.60000	942.00	.2660-01	.1910-01	.3540-01	.9183	.8931-03	.1656-02	.1050	.6780	546.3
262	163.12	.70000	943.00	.2260-01	.1630-01	.3000-01	.9183	.7623-03	.1403-02	.9100-01	.6230	545.2
262	163.12	.80000	944.00	.1980-01	.1420-01	.2650-01	.9183	.6633-03	.1239-02	.7700-01	.5050	547.3
262	168.00	.35000	945.00	.2420-01	.1790-01	.3240-01	.9183	.8379-03	.1516-02	.1020	.6450	542.7
262	168.00	.36000	946.00	.2670-01	.1940-01	.3510-01	.9183	.9094-03	.1641-02	.1110	.7050	542.3
262	168.00	.37000	947.00	.2830-01	.2050-01	.3740-01	.9183	.9589-03	.1753-02	.1150	.7330	544.2
262	168.00	.37500	948.00	.2780-01	.2010-01	.3670-01	.9183	.9400-03	.1719-02	.1130	.7180	544.3
262	168.00	.38500	950.00	.2500-01	.1810-01	.3280-01	.9183	.8489-03	.1535-02	.1030	.6650	542.7
262	168.00	.39000	951.00	.2960-01	.2140-01	.3910-01	.9183	.1001-02	.1829-02	.1200	.7780	544.2
262	168.00	.39500	952.00	.2840-01	.2050-01	.3750-01	.9183	.9598-03	.1756-02	.1150	.7350	544.4
262	168.00	.40000	953.00	.2860-01	.2060-01	.3790-01	.9183	.9658-03	.1775-02	.1150	.7480	545.0
262	168.00	.40500	954.00	.2850-01	.2050-01	.3780-01	.9183	.9619-03	.1771-02	.1140	.7460	545.3
262	168.00	.41000	955.00	.2870-01	.2070-01	.3810-01	.9183	.9685-03	.1784-02	.1150	.7500	545.3
262	168.00	.41500	956.00	.2930-01	.2110-01	.3880-01	.9183	.9882-03	.1818-02	.1170	.7690	545.2
262	168.00	.42000	957.00	.2860-01	.2060-01	.3780-01	.9183	.9639-03	.1771-02	.1150	.7540	545.0
262	168.00	.42500	958.00	.2830-01	.2040-01	.3750-01	.9183	.9545-03	.1754-02	.1140	.7460	545.0
262	169.00	.43000	959.00	.2800-01	.2020-01	.3720-01	.9183	.9445-03	.1740-02	.1120	.7340	545.3
262	169.00	.44000	960.00	.2900-01	.2090-01	.3840-01	.9183	.9784-03	.1797-02	.1170	.7650	544.9
262	169.00	.44500	961.00	.2780-01	.2010-01	.3690-01	.9183	.9390-03	.1727-02	.1120	.7330	545.1
262	168.00	.45500	963.00	.2660-01	.1920-01	.3520-01	.9183	.8980-03	.1647-02	.1070	.7080	544.7
262	168.00	.46000	964.00	.2720-01	.1960-01	.3600-01	.9183	.9160-03	.1686-02	.1090	.7230	545.2
262	168.00	.47000	965.00	.2680-01	.1930-01	.3540-01	.9183	.9039-03	.1658-02	.1080	.7190	544.7
262	168.00	.48000	966.00	.2730-01	.1970-01	.3610-01	.9183	.9221-03	.1691-02	.1100	.7400	544.7
262	169.00	.49000	967.00	.3020-01	.2190-01	.3970-01	.9183	.1027-02	.1860-02	.1240	.8380	542.8
262	168.00	.85000	968.00	.1780-01	.1270-01	.2380-01	.9183	.5961-03	.1115-02	.6900-01	.4500	547.5
262	168.00	.86000	969.00	.1660-01	.1190-01	.2220-01	.9183	.5556-03	.1042-02	.6500-01	.4200	547.7
262	168.00	.87000	970.00	.1690-01	.1210-01	.2270-01	.9183	.5656-03	.1061-02	.6600-01	.4280	547.8
262	168.00	.88000	971.00	.1700-01	.1210-01	.2290-01	.9183	.5682-03	.1071-02	.6600-01	.4290	548.4
262	168.00	.89000	972.00	.1890-01	.1340-01	.2540-01	.9183	.6284-03	.1189-02	.7200-01	.4800	548.9
262	168.00	.90000	973.00	.1260-01	.9000-02	.1680-01	.9183	.4219-03	.7852-03	.4900-01	.3360	546.8

DATE 03 JUN 78 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F15)

(IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	QTWDT DEG. R /SEC	TW DEG. R
262	168.00	.91000	974.00	.2200-02	.1600-02	.3000-02	.9183	.7483-04	.1387-03	.9000-02	.6400-01	546.2
262	168.00	.92600	975.00	.6100-02	.4400-02	.8200-02	.9183	.2051-03	.3845-03	.2400-01	.1730	547.7
262	168.00	.95000	976.00	.2510-01	.1780-01	.3380-01	.9183	.8325-03	.1585-02	.9500-01	.6840	549.7
262	180.00	.20000-01	982.00	.5770-01	.4150-01	.5590-01	.9542	.1941-02	.2616-02	.2290	1.593	546.0
262	180.00	.25000-01	983.00	.1353	.9580-01	.1329	.9522	.4484-[illegible]	.6222-02	.5100	3.514	550.3
262	180.00	.30000-01	984.00	.2928	.1938	.2912	.9506	.9075-0[illegible]	.1363-01	.8910	6.062	565.8
84	180.00	.40000-01	600.00	.3547	.2431	.3577	.9491	.1153-01	.1696-01	1.222	7.802	560.9
84	180.00	.50000-01	601.00	.3646	.2518	.3731	.9457	.1194-01	.1797-01	1.286	8.241	559.2
84	180.00	.60000-01	602.00	.4003	.2639	.4336	.9426	.1251-01	.2055-01	1.225	8.070	559.0
84	180.00	.70000-01	603.00	.4075	.2557	.4650	.9396	.1212-01	.2204-01	1.096	7.297	577.3
84	180.00	.80000-01	604.00	.2469	.1705	.2801	.9368	.8082-02	.1328-01	.8700	5.627	559.2
84	180.00	.10000+00	605.00	.1468	.1033	.1734	.9318	.4699-02	.8222-02	.5510	3.942	554.3
84	180.00	.15000	606.00	.8280-01	.5900-01	.1062	.9227	.2797-02	.5035-02	.3250	2.354	550.9
84	180.00	.20000	607.00	.3640-01	.2660-01	.4760-01	.9185	.1254-02	.2255-02	.1540	1.003	544.4
84	180.00	.21000	608.00	.2760-01	.1910-01	.3010-01	.9183	.9541-03	.1713-02	.1170	.8120	543.9
84	180.00	.22000	609.00	.2070-01	.1510-01	.2710-01	.9183	.7142-03	.1283-02	.8800-01	.6540	544.0
84	180.00	.30000	610.00	.1660-01	.1210-01	.2170-01	.9183	.5752-03	.1027-02	.7100-01	.4890	543.0
84	180.00	.35000	611.00	.2350-01	.1710-01	.3060-01	.9183	.8119-03	.1452-02	.1000+00	.6880	543.3
84	180.00	.36000	612.00	.2530-01	.1850-01	.3310-01	.9183	.8775-03	.1568-02	.1090	.7310	543.2
84	180.00	.37000	613.00	.1890-01	.1380-01	.2470-01	.9183	.6538-03	.1170-02	.8130-01	.5440	543.4
84	180.00	.37500	614.00	.2530-01	.1080-01	.3370-01	.9183	.8806-03	.1600-02	.1100	.7410	543.5
84	180.00	.38000	615.00	.4470-01	.3270-01	.5840-01	.9183	.1548-02	.2767-02	.1920	1.290	543.2
84	180.00	.38500	616.00	.3000-01	.2190-01	.3910-01	.9183	.1037-02	.1854-02	.1280	.8640	543.2
84	180.00	.39000	617.00	.2940-01	.2150-01	.3840-01	.9183	.1018-02	.1820-02	.1260	.8490	542.9
84	180.00	.39500	618.00	.2710-01	.1980-01	.3540-01	.9183	.9402-03	.1677-02	.1170	.7870	543.0
84	180.00	.40000	619.00	.2980-01	.2180-01	.3890-01	.9183	.1032-02	.1842-02	.1280	.8590	543.2
84	180.00	.40500	620.00	.2990-01	.2180-01	.3900-01	.9183	.1034-02	.1849-02	.1280	.8610	543.6
84	180.00	.41000	621.00	.3120-01	.2280-01	.4080-01	.9183	.1079-02	.1933-02	.1330	.8980	543.3
84	180.00	.41500	622.00	.3230-01	.2360-01	.4220-01	.9183	.1118-02	.1999-02	.1380	.9270	543.3
84	180.00	.42500	624.00	.3370-01	.2460-01	.3900-01	.9183	.1324-02	.1947-02	.1250	.8400	544.6
84	180.00	.43000	625.00	.2820-01	.2060-01	.3700-01	.9183	.9724-03	.1754-02	.1190	.8000	544.6
84	180.00	.44000	626.00	.2730-01	.1990-01	.3580-01	.9183	.9342-03	.1734-02	.1190	.7970	544.1
84	180.00	.44500	627.00	.2770-01	.2020-01	.3630-01	.9183	.9542-03	.1718-02	.1170	.7860	544.2
84	180.00	.45000	628.00	.2700-01	.1970-01	.3540-01	.9183	.9303-03	.1674-02	.1140	.7660	[illegible].3
84	180.00	.45500	629.00	.2560-01	.1870-01	.3360-01	.9183	.8847-03	.1587-02	.1090	.7510	545.8
84	180.00	.46000	630.00	.2500-01	.1820-01	.3280-01	.9183	.8643-03	.1549-02	.1070	.7190	545.6
84	180.00	.47000	631.00	.2550-01	.1880-01	.3340-01	.9183	.8806-03	.1585-02	.1080	.7260	544.3
84	180.00	.49000	633.00	.2220-01	.1630-01	.2920-01	.9183	.7663-03	.1383-02	.9400-01	.6400	544.7
84	180.00	.50000	634.00	.1990-01	.1460-01	.2610-01	.9183	.6731-03	.1210-02	.8230-01	.5610	545.4
84	180.00	.55000	635.00	.1440-01	.1060-01	.1890-01	.9183	.4940-03	.9951-03	.6000-01	.3990	545.3
84	180.00	.60000	636.00	.2630-01	.1930-01	.3440-01	.9183	.9072-03	.1633-02	.1110	.7180	544.3
84	180.00	.65000	637.00	.2410-01	.1780-01	.3180-01	.9183	.8338-03	.1498-02	.1030	.6640	544.0
84	180.00	.70000	638.00	.2230-01	.1610-01	.2930-01	.9183	.7652-03	.1391-02	.9300-01	.6350	545.8

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F15)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
84	180.00	.75000	639.00	.1490-01	.1080-01	.1950-01	.9183	.5110-03	.9261-03	.6200-01	.4010	545.3
84	180.00	.80000	640.00	.1920-01	.1400-01	.2510-01	.9183	.6617-03	.1198-02	.8100-01	.5100	544.1
84	180.00	.85000	641.00	.2070-01	.1500-01	.2710-01	.9183	.7131-03	.1285-02	.8700-01	.5530	544.4
84	180.00	.86000	642.00	.1910-01	.1390-01	.2500-01	.9183	.6569-03	.1187-02	.8000-01	.5140	544.9
84	180.00	.87000	643.00	.2030-01	.1470-01	.2670-01	.9183	.6983-03	.1268-02	.8500-01	.5470	545.6
84	180.00	.89000	644.00	.2510-01	.1820-01	.3310-01	.9183	.8610-03	.1570-02	.1040	.6760	546.2
84	180.00	.89000	645.00	.2010-01	.1450-01	.2660-01	.9183	.6894-03	.1259-02	.8300-01	.5460	546.5
84	180.00	.90000	646.00	.8900-02	.6500-02	.1170-01	.9183	.3069-03	.5559-03	.3700-01	.2510	545.3
84	180.00	.92600	648.00	.1750-01	.1270-01	.2310-01	.9183	.6014-03	.1093-02	.7300-01	.5310	545.8
84	180.00	.95000	649.00	.2540-01	.1840-01	.3350-01	.9183	.8707-03	.1588-02	.1050	.7590	546.3
84	191.25	.35000	650.00	.3750-01	.2730-01	.4910-01	.9183	.1293-02	.2329-02	.1580	1.066	544.4
84	191.25	.36000	651.00	.2930-01	.2130-01	.3840-01	.9183	.1010-02	.1819-02	.1240	.8360	544.4
84	191.25	.37000	652.00	.3060-01	.2230-01	.4020-01	.9183	.1057-02	.1904-02	.1300	.8720	544.4
84	191.25	.37500	653.00	.2920-01	.2130-01	.3830-01	.9183	.1008-02	.1814-02	.1240	.8340	544.3
84	191.25	.38000	654.00	.3010-01	.2190-01	.3940-01	.9183	.1038-02	.1866-02	.1270	.8600	544.1
84	191.25	.38500	655.00	.2970-01	.2160-01	.3890-01	.9183	.1025-02	.1843-02	.1260	.8500	544.1
84	191.25	.39000	656.00	.2960-01	.2160-01	.3880-01	.9183	.1024-02	.1840-02	.1260	.8490	544.0
84	191.25	.40000	658.00	.2540-01	.1850-01	.3310-01	.9183	.8781-03	.1569-02	.1090	.7360	543.1
84	191.25	.40500	659.00	.2580-01	.1880-01	.3380-01	.9183	.8935-03	.1600-02	.1100	.7470	543.5
84	191.25	.41000	660.00	.2990-01	.2170-01	.3900-01	.9183	.1029-02	.1847-02	.1270	.8550	543.8
84	191.25	.41500	661.00	.3150-01	.2300-01	.4120-01	.9183	.1089-02	.1953-02	.1340	.9030	543.7
84	191.25	.42000	662.00	.2990-01	.2180-01	.3920-01	.9183	.1033-02	.1858-02	.1270	.8650	544.3
84	191.25	.42500	663.00	.3150-01	.2290-01	.4120-01	.9183	.1088-02	.1953-02	.1340	.9070	543.9
84	191.25	.43000	664.00	.3020-01	.2200-01	.3950-01	.9183	.1043-02	.1872-02	.1280	.8760	544.0
84	191.25	.44000	665.00	.2960-01	.2160-01	.3880-01	.9183	.1023-02	.1837-02	.1260	.8530	544.0
84	191.25	.45000	666.00	.3000-01	.2190-01	.3930-01	.9183	.1037-02	.1862-02	.1270	.8660	544.0
84	191.25	.46500	667.00	.2930-01	.2140-01	.3840-01	.9183	.1014-02	.1819-02	.1250	.8470	543.9
84	191.25	.46000	668.00	.2890-01	.2110-01	.3780-01	.9183	.9991-03	.1792-02	.1230	.8390	543.7
84	191.25	.47000	669.00	.2960-01	.2160-01	.3870-01	.9183	.1024-02	.1835-02	.1260	.8620	543.7
84	191.25	.48000	670.00	.2870-01	.2090-01	.3750-01	.9183	.9930-03	.1779-02	.1220	.8370	543.5
84	191.25	.49000	671.00	.2790-01	.2030-01	.3670-01	.9183	.9622-03	.1739-02	.1170	.7990	545.0
84	191.25	.50000	672.00	.2470-01	.1800-01	.3250-01	.9183	.8527-03	.1540-02	.1040	.7240	544.9
84	191.25	.60000	673.00	.2550-01	.1860-01	.3350-01	.9183	.8803-03	.1587-02	.1080	.6910	544.5
84	191.25	.70000	674.00	.2620-01	.1890-01	.3460-01	.9183	.8968-03	.1638-02	.1080	.7350	546.5
84	191.25	.85000	676.00	.1640-01	.1190-01	.2150-01	.9183	.5661-03	.1018-02	.6900-01	.4400	544.2
84	191.25	.86000	677.00	.1900-01	.1380-01	.2490-01	.9183	.6536-03	.1179-02	.8000-01	.5120	544.6
84	191.25	.87000	678.00	.2190-01	.1590-01	.2880-01	.9183	.7532-03	.1364-02	.9200-01	.5910	545.2
84	191.25	.88000	679.00	.2090-01	.1510-01	.2750-01	.9183	.7171-03	.1304-02	.8700-01	.5670	545.9
84	191.25	.89000	680.00	.1980-01	.1430-01	.2620-01	.9183	.6798-03	.1241-02	.8200-01	.5420	546.4
84	191.25	.90000	681.00	.1140-01	.8300-02	.1510-01	.9183	.3915-03	.7145-03	.4700-01	.3180	546.4
84	191.25	.92600	683.00	.8700-02	.6300-02	.1150-01	.9183	.2996-03	.5436-03	.3600-01	.2660	545.5
84	191.25	.95000	684.00	.2510-01	.1820-01	.3310-01	.9183	.8640-03	.1569-02	.1050	.7570	545.7
84	197.00	.33000	685.00	.2530-01	.1840-01	.3310-01	.9183	.8726-03	.1567-02	.1070	.7220	543.9

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OF POOR QUALITY

DATE 03 JUN 76 AEDC V41A-A4A (1H-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F15)

(H41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
84	197.00	.34000	686.00	.2720-01	.1980-01	.3550-01	.9183	.9380-03	.1685-02	.1150	.7760	544.0
84	197.00	.35000	687.00	.3290-01	.2400-01	.4300-01	.9183	.1137-02	.2039-02	.1400	.9430	543.7
84	197.00	.36000	688.00	.3050-01	.2230-01	.4000-01	.9183	.1055-02	.1895-02	.1300	.8740	543.9
84	197.00	.37000	689.00	.3170-01	.2310-01	.4160-01	.9183	.1095-02	.1970-02	.1340	.9050	544.2
84	197.00	.37500	690.00	.3950-01	.2880-01	.5180-01	.9183	.1364-02	.2454-02	.1670	1.129	544.3
84	197.00	.50000	691.00	.2730-01	.1990-01	.3580-01	.9183	.9413-03	.1699-02	.1150	.7740	544.7
84	197.00	.60000	692.00	.2650-01	.1930-01	.3450-01	.9183	.9158-03	.1637-02	.1130	.7310	543.3
84	197.00	.70000	693.00	.3620-01	.2640-01	.4740-01	.9183	.1252-02	.2245-02	.1540	1.048	543.7
84	197.00	.80000	694.00	.2900-01	.2110-01	.3780-01	.9183	.1002-02	.1792-02	.1240	.7800	543.3
84	197.00	.87000	695.00	.2360-01	.1710-01	.3100-01	.9183	.8128-03	.1467-02	.9900-01	.6340	544.8
84	197.00	.92600	696.00	.9100-02	.6600-02	.1190-01	.9183	.3117-03	.5656-03	.3900-01	.2770	545.5
84	197.00	.15000-01	697.00	.2561	.1852	.3071	.9283	.1024-01	.1638-01	.0000	.0000	539.9
262	209.80	.30000-01	698.00	.3808	.2619	.3755	.9515	.1242-01	.1781-01	1.327	8.967	560.2
85	209.80	.50000-01	699.00	.3969	.2805	.4081	.9467	.1330-01	.1935-01	1.513	9.585	553.2
85	209.80	.70000-01	700.00	.3867	.2605	.4261	.9405	.1235-01	.2021-01	1.262	8.457	564.8
85	209.80	.10000-00	701.00	.1843	.1326	.2134	.9325	.6288-02	.1012-01	.7470	4.759	548.2
85	209.80	.15000	702.00	.8060-01	.6330-01	.1079	.9231	.3004-02	.5116-02	.3430	2.673	542.9
85	209.80	.20000	703.00	.4250-01	.3160-01	.5410-01	.9186	.1501-02	.2567-02	.1960	1.314	536.2
85	209.80	.30000	704.00	.2040-01	.1500-01	.2630-01	.9183	.7127-03	.1246-02	.9100-01	.6450	539.7
85	209.80	.35000	705.00	.3210-01	.2330-01	.4080-01	.9183	.1135-02	.1941-02	.1490	1.025	535.8
85	209.80	.37500	706.00	.2930-01	.2130-01	.3730-01	.9183	.1036-02	.1758-02	.1360	.9420	535.3
85	209.80	.50000	707.00	.2760-01	.2040-01	.3560-01	.9183	.9680-03	.1690-02	.1230	.8480	538.4
85	209.80	.60000	708.00	.1700-01	.1270-01	.2160-01	.9193	.6022-03	.1023-02	.8000-01	.5520	534.5
85	209.80	.70000	709.00	.3050-01	.2270-01	.3910-01	.9183	.1078-02	.1856-02	.1400	.9680	537.0
85	209.80	.80000	710.00	.3020-01	.2280-01	.3910-01	.9183	.1081-02	.1868-02	.1460	.9200	531.5
85	209.80	.87000	711.00	.3700-01	.2780-01	.4690-01	.9183	.1316-02	.2223-02	.1760	1.119	533.4
85	209.80	.92500	712.00	.1040-01	.7700-02	.1330-01	.9183	.3669-03	.6314-03	.4800-01	.3090	536.9
85	217.70	.30000-01	714.00	.3979	.2647	.3795	.9521	.1306-01	.1900-01	1.325	8.950	561.4
85	217.70	.50000-01	715.00	.4090	.2880	.4186	.9473	.1366-01	.1985-01	1.540	10.01	554.2
85	217.70	.70000-01	716.00	.3947	.2616	.4345	.9410	.1340-01	.2061-01	1.427	9.231	559.1
85	217.70	.10000+00	717.00	.1891	.1364	.2177	.9330	.6469-02	.1033-01	.7740	5.018	547.3
85	217.70	.15000	718.00	.8480-01	.6210-01	.1053	.9234	.2945-02	.4695-02	.3660	2.687	542.6
85	217.70	.20000	719.00	.4200-01	.3140-01	.5330-01	.9187	.1488-02	.2368-02	.1960	1.332	538.0
85	217.70	.30000	720.00	.2420-01	.1780-01	.3130-01	.9183	.8469-03	.1405-02	.1070	.7710	540.1
85	217.70	.35000	721.00	.3060-01	.2240-01	.3940-01	.9183	.1224-02	.2041-02	.1610	1.160	535.3
85	217.70	.37500	722.00	.3350-01	.2430-01	.4150-01	.9183	.1154-02	.1967-02	.1520	1.060	536.2
85	217.70	.50000	723.00	.2410-01	.1790-01	.3100-01	.9183	.8472-03	.1472-02	.1090	.7550	538.5
85	217.70	.60000	724.00	.3500-01	.2630-01	.4440-01	.9183	.1246-02	.2108-02	.1650	1.069	533.7
85	217.70	.70000	725.00	.3330-01	.2480-01	.4250-01	.9183	.1175-02	.2026-02	.1530	.9790	535.5
85	217.70	.80000	726.00	.3190-01	.2380-01	.4100-01	.9183	.1126-02	.1942-02	.1470	1.011	537.2
85	217.70	.87000	727.00	.3340-01	.2740-01	.4610-01	.9183	.1297-02	.2166-02	.1740	1.120	532.9
85	217.70	.92600	728.00	.1410-01	.1050-01	.1810-01	.9183	.4984-03	.8567-03	.6500-01	.4750	536.7

IHN1(AEDC V41A-A4A) T3 NIPPLE NOSE ET

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = 5.000 BETA = .0000 GR:T = 3.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
52	5.500	4.944	5.000	.0000	.0000	177.8	.1910	745.0	105.6	4.046	2770.	.1518-03
53	5.500	4.947	5.010	.0000	.0000	177.8	.1910	744.0	105.6	4.047	2769.	.1519-03
252	5.500	5.015	5.010	.0000	.0000	178.1	.1910	739.0	104.8	4.054	2758.	.1533-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
52	.8503-07	.4478-01	.1367-01
53	.8501-07	.4475-01	.1366-01
252	.8434-07	.4477-01	.1358-01

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
52	.00000	.30000-02	730.00	.4759	.3667	.4195	.9726	.1642-01	.1878-01	2.664	17.97	582.3
52	.00000	.10300-01	731.00	.1554	.1261	.1860	.9146	.5647-02	.8329-02	1.115	7.681	547.1
52	.00000	.15000-01	732.00	.1147	.9310-01	.1372	.9146	.4169-02	.6142-02	.8250	5.614	546.7
52	.00000	.20000-01	733.00	.2128	.1702	.1942	.9691	.7622-02	.8697-02	1.417	9.675	558.6
52	.00000	.25000-01	734.00	.4998	.3749	.4406	.9571	.1679-01	.2009-01	2.501	16.60	595.6
52	.00000	.30000-01	735.00	.6494	.4865	.5884	.9655	.2178-01	.2635-01	3.231	21.58	596.2
52	.00000	.40000-01	737.00	.4499	.3486	.4162	.9640	.1561-01	.1863-01	2.581	16.57	579.2
52	.00000	.45000-01	738.00	.3912	.3057	.3663	.9622	.1369-01	.1640-01	2.333	15.24	574.2
52	.00000	.60000-01	739.00	.4287	.3263	.4109	.9569	.1461-01	.1840-01	2.277	14.99	588.7
52	.00000	.80000-01	741.00	.3790	.2889	.3785	.9502	.1294-01	.1695-01	2.026	14.43	588.0
52	.00000	.10000+00	742.00	.2819	.2213	.2915	.9440	.9912-02	.1305-01	1.719	11.34	571.2
52	.00000	.12500	743.00	.2168	.1687	.2345	.9367	.7553-02	.1050-01	1.267	9.078	576.8
52	.00000	.15000	744.00	.1720	.1357	.1922	.9303	.6078-02	.8607-02	1.074	7.386	567.9
52	.00000	.17500	745.00	.1123	.8980-01	.1286	.9247	.4020-02	.5759-02	.7470	5.577	558.8
52	.00000	.20000	746.00	.7480-01	.6030-01	.8730-01	.9199	.2702-02	.3910-02	.5210	3.721	551.6
52	.00000	.21500	747.00	.6370-01	.5150-01	.7520-01	.9176	.2307-02	.3366-02	.4500	3.116	549.5
52	.00000	.23000	748.00	.4910-01	.3980-01	.5850-01	.9157	.1784-02	.2621-02	.3510	2.591	548.0
52	.00000	.24000	749.00	.4510-01	.3660-01	.5400-01	.9146	.1641-02	.2418-02	.3250	2.448	546.8

(RV7F15)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
52	.00000	.25000	750.00	.2490-01	.2030-01	.2970-01	.9146	.9091-03	.1329-02	.1830	1.483	543.3
52	.00000	.30000	751.00	.5380-01	.4370-01	.6430-01	.9146	.1955-02	.2880-02	.3870	2.540	546.6
52	.00000	.35000	752.00	.5220-01	.4240-01	.6250-01	.9146	.1898-02	.2798-02	.3750	2.372	546.9
52	.00000	.40000	753.00	.5060-01	.4090-01	.6070-01	.9146	.1833-02	.2718-02	.3580	2.296	549.5
52	.00000	.50000	754.00	.4160-01	.3330-01	.5050-01	.9146	.1489-02	.2263-02	.2770	1.800	558.7
52	.00000	.60000	755.00	.4830-01	.3860-01	.5870-01	.9146	.1727-02	.2629-02	.3200	2.038	559.3
52	.00000	.70000	756.00	.4180-01	.3330-01	.5100-01	.9146	.1492-02	.2284-02	.2740	1.793	561.2
52	.00000	.80000	757.00	.3760-01	.3010-01	.4570-01	.9146	.1346-02	.2044-02	.2510	1.562	558.4
52	.00000	.90000	758.00	.1610-01	.1300-01	.1950-01	.9146	.5812-03	.8731-03	.1110	.7120	554.4
52	55.000	.22000	759.00	.4720-01	.3850-01	.5610-01	.9154	.1722-02	.2514-02	.3450	2.567	544.5
52	55.000	.25000	760.00	.2240-01	.1830-01	.2670-01	.9136	.8203-03	.1195-02	.1680	1.323	539.4
52	55.000	.27000	761.00	.2690-01	.2190-01	.3210-01	.9136	.9818-03	.1438-02	.1990	1.485	541.8
52	55.000	.30000	762.00	.4480-01	.3650-01	.5360-01	.9136	.1635-02	.2398-02	.3300	1.990	542.6
52	55.000	.32000	763.00	.4720-01	.3850-01	.5640-01	.9136	.1722-02	.2527-02	.3480	2.063	542.5
52	55.000	.34000	764.00	.5140-01	.4190-01	.6150-01	.9136	.1876-02	.2755-02	.3780	2.250	542.9
52	55.000	.36000	765.00	.4410-01	.3590-01	.5270-01	.9136	.1609-02	.2361-02	.3250	1.960	542.5
52	55.000	.38000	766.00	.4310-01	.3520-01	.5160-01	.9136	.1575-02	.2313-02	.3180	1.935	542.9
52	55.000	.40000	767.00	.4180-01	.3410-01	.5000-01	.9136	.1525-02	.2238-02	.3080	1.930	542.5
52	67.500	.23000	768.00	.4700-01	.3830-01	.5610-01	.9140	.1714-02	.2514-02	.3450	2.572	543.2
52	67.500	.25000	769.00	.1750-01	.1440-01	.2090-01	.9133	.6435-03	.9373-03	.1320	1.035	538.7
52	67.500	.27000	770.00	.2920-01	.2390-01	.3500-01	.9133	.1069-02	.1565-02	.2180	1.593	540.9
52	67.500	.30000	772.00	.3600-01	.2940-01	.4320-01	.9133	.1316-02	.1935-02	.2660	1.628	542.6
52	67.500	.31000	773.00	.4100-01	.3350-01	.4920-01	.9133	.1498-02	.2203-02	.3020	1.836	542.8
52	67.500	.32000	774.00	.4280-01	.3490-01	.5130-01	.9133	.1563-02	.2296-02	.3160	1.905	542.3
52	67.500	.32500	775.00	.4040-01	.3300-01	.4840-01	.9133	.1476-02	.2167-02	.2990	1.804	542.3
52	67.500	.33000	776.00	.4010-01	.3270-01	.4800-01	.9133	.1464-02	.2149-02	.2960	1.796	542.2
52	67.500	.33500	777.00	.4130-01	.3370-01	.4940-01	.9133	.1508-02	.2212-02	.3060	1.853	541.8
52	67.500	.34000	778.00	.4140-01	.3380-01	.4950-01	.9133	.1512-02	.2218-02	.3060	1.857	541.8
52	67.500	.34500	779.00	.4240-01	.3460-01	.5070-01	.9133	.1549-02	.2272-02	.3140	1.908	541.8
52	67.500	.35000	780.00	.4020-01	.3280-01	.4810-01	.9133	.1469-02	.2153-02	.2980	1.817	541.6
52	67.500	.35500	781.00	.3840-01	.3140-01	.4600-01	.9133	.1405-02	.2062-02	.2850	1.740	541.9
52	67.500	.36000	782.00	.3980-01	.3250-01	.4770-01	.9133	.1454-02	.2134-02	.2950	1.801	541.9
52	67.500	.36500	783.00	.3840-01	.3130-01	.4590-01	.9133	.1403-02	.2056-02	.2850	1.738	541.4
52	67.500	.37000	784.00	.3790-01	.3100-01	.4540-01	.9133	.1386-02	.2032-02	.2820	1.725	541.5
52	67.500	.37500	785.00	.3610-01	.2950-01	.4320-01	.9133	.1320-02	.1934-02	.2680	1.657	541.4
52	67.500	.38000	786.00	.3550-01	.2900-01	.4260-01	.9133	.1299-02	.1906-02	.2630	1.632	541.8
52	67.500	.39000	787.00	.3770-01	.3080-01	.4520-01	.9133	.1378-02	.2023-02	.2790	1.733	542.1
52	67.500	.40000	788.00	.4160-01	.3400-01	.4980-01	.9133	.1521-02	.2230-02	.3080	1.932	541.7
53	67.500	.50000	789.00	.3860-01	.3150-01	.4630-01	.9133	.1409-02	.2074-02	.2840	1.822	543.2
252	67.500	.60000	790.00	.8200-01	.5860-01	.9830-01	.9293	.3248-02	.5447-02	.3870	2.523	561.8
252	67.500	.70000	791.00	.8800-01	.6080-01	.1079	.9293	.3371-02	.5984-02	.3720	2.595	570.7
252	67.500	.80000	792.00	.9450-01	.6590-01	.1153	.9293	.3652-02	.6389-02	.4110	2.552	568.6
252	67.500	.90000	793.00	.6470-01	.4280-01	.8210-01	.9293	.2373-02	.4553-02	.2390	1.514	580.4

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F15)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
252	78.000	.27000	794.00	.7020-01	.4960-01	.8500-01	.9290	.2750-02	.4712-02	.3190	2.256	565.0
252	78.000	.29000	795.00	.1090	.7640-01	.1328	.9290	.4235-02	.7364-02	.4820	2.938	567.3
53	78.000	.30000	796.00	.3600-01	.2940-01	.4300-01	.9131	.1318-02	.1926-02	.2700	1.644	539.4
53	78.000	.31000	797.00	.3700-01	.3030-01	.4420-01	.9131	.1355-02	.1979-02	.2780	1.691	539.3
53	78.000	.32000	798.00	.3690-01	.3020-01	.4410-01	.9131	.1354-02	.1977-02	.2780	1.683	539.1
53	78.000	.32500	799.00	.3850-01	.3150-01	.4600-01	.9131	.1410-02	.2058-02	.2890	1.756	539.1
53	78.000	.33000	800.00	.3790-01	.3100-01	.4530-01	.9131	.1389-02	.2027-02	.2860	1.735	538.7
53	78.000	.33500	801.00	.3980-01	.3260-01	.4750-01	.9131	.1458-02	.2128-02	.3000	1.819	538.9
53	78.000	.34000	802.00	.3660-01	.3000-01	.4370-01	.9131	.1343-02	.1956-02	.2770	1.681	538.2
53	78.000	.34500	803.00	.3750-01	.3070-01	.4480-01	.9131	.1376-02	.2005-02	.2840	1.727	538.3
53	78.000	.35000	804.00	.3750-01	.3070-01	.4470-01	.9131	.1374-02	.2002-02	.2830	1.726	538.1
53	78.000	.35500	805.00	.3850-01	.3150-01	.4590-01	.9131	.1411-02	.2056-02	.2910	1.773	538.0
53	78.000	.36000	806.00	.2540-01	.2090-01	.3040-01	.9131	.9342-03	.1360-02	.1930	1.179	537.8
53	78.000	.36500	807.00	.3730-01	.3060-01	.4450-01	.9131	.1368-02	.1993-02	.2820	1.728	538.1
53	78.000	.37000	808.00	.3650-01	.3000-01	.4360-01	.9131	.1341-02	.1953-02	.2770	1.700	538.0
53	78.000	.37500	809.00	.3650-01	.3000-01	.4360-01	.9131	.1341-02	.1954-02	.2770	1.699	538.1
53	78.000	.38000	810.00	.3560-01	.2920-01	.4250-01	.9131	.1308-02	.1905-02	.2700	1.669	537.8
53	78.000	.39000	811.00	.3410-01	.2790-01	.4070-01	.9131	.1250-02	.1821-02	.2580	1.596	538.1
53	78.000	.40000	812.00	.3440-01	.2820-01	.4100-01	.9131	.1261-02	.1838-02	.2600	1.610	538.1
252	90.000	.40000-01	985.00	.4566	.3466	.4417	.9553	.1552-01	.1978-01	2.377	15.17	585.4
252	90.000	.50000-01	986.00	.4012	.3080	.3968	.9518	.1379-01	.1777-01	2.192	13.94	579.6
252	90.000	.60000-01	987.00	.3823	.2841	.3865	.9484	.1272-01	.1731-01	1.829	11.75	594.8
252	90.000	.80000-01	989.00	.2952	.2250	.3107	.9420	.1007-01	.1391-01	1.564	10.88	583.3
252	90.000	.15000	991.00	.1178	.9230-01	.1376	.9239	.4135-02	.6160-02	.7060	5.132	567.7
53	90.000	.20000	813.00	.3290-01	.2700-01	.3930-01	.9133	.1208-02	.1760-02	.2480	1.813	538.7
53	90.000	.24000	814.00	.2600-01	.2130-01	.3110-01	.9130	.9534-03	.1392-02	.1960	1.592	538.8
53	90.000	.27000	816.00	.1840-01	.1510-01	.2190-01	.9130	.6744-03	.9827-03	.1390	.9940	538.0
53	90.000	.29000	817.00	.2080-01	.1700-01	.2480-01	.9130	.7632-03	.1113-02	.1570	.9820	538.2
53	90.000	.30000	818.00	.3050 01	.2500-01	.3650-01	.9130	.1118-02	.1633-02	.2300	1.408	539.1
53	90.000	.31000	819.00	.3330-01	.2730-01	.3980-01	.9130	.1221-02	.1782-02	.2510	1.527	538.9
53	90.000	.32000	820.00	.3530-01	.2890-01	.4220-01	.9130	.1293-02	.1888-02	.2660	1.614	538.8
53	90.000	.32500	821.00	.3410-01	.2790-01	.4080-01	.9130	.1251-02	.1825-02	.2580	1.562	538.3
53	90.000	.33000	822.00	.3770-01	.3090-01	.4510-01	.9130	.1385-02	.2019-02	.2860	1.734	538.2
53	90.000	.33500	823.00	.3500-01	.2870-01	.4180-01	.9130	.1286-02	.1874-02	.2660	1.618	537.9
53	90.000	.34000	824.00	.3660-01	.3000-01	.4370-01	.9130	.1343-02	.1956-02	.2770	1.680	537.8
53	90.000	.34500	825.00	.3760-01	.3080-01	.4490-01	.9130	.1380-02	.2011-02	.2850	1.732	537.8
53	90.000	.35000	826.00	.3750-01	.3080-01	.4480-01	.9130	.1378-02	.2006-02	.2850	1.729	537.8
53	90.000	.36000	828.00	.3280-01	.2690-01	.3920-01	.9130	.1205-02	.1755-02	.2490	1.508	537.8
53	90.000	.37000	830.00	.3610-01	.2960-01	.4310-01	.9130	.1325-02	.1928-02	.2740	1.672	537.3
53	90.000	.37500	831.00	.3720-01	.3050-01	.4440-01	.9130	.1368-02	.1989-02	.2840	1.737	537.1
53	90.000	.38000	832.00	.3510-01	.2880-01	.4200-01	.9130	.1290-02	.1879-02	.2670	1.633	537.7
53	90.000	.39000	833.00	.3270-01	.2680-01	.3900-01	.9130	.1200-02	.1746-02	.2490	1.540	537.2
53	90.000	.40000	834.00	.3380-01	.2770-01	.4040-01	.9130	.1241-02	.1807-02	.2560	1.592	537.8

DATE 03 JUN 76

AEDC V41A-A4A (1H-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F15)

1H41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
53	90.000	.50000	835.00	.3250-01	.2660-01	.3890-01	.9130	.1192-02	.1744-02	.2440	1.547	-39.8
53	90.000	.60000	836.00	.2940-01	.2410-01	.3510-01	.9130	.1079-02	.1573-02	.2220	1.487	538.3
53	90.000	.70000	837.00	.2890-01	.2370-01	.3450-01	.9130	.1061-02	.1546-02	.2190	1.548	538.0
53	90.000	.80000	838.00	.2730-01	.2240-01	.3260-01	.9130	.1005-02	.1460-02	.2090	1.303	536.8
53	90.000	.90000	839.00	.2110-01	.1740-01	.2510-01	.9130	.7800-03	.1125-02	.1650	1.059	533.4
53	112.50	.23000	840.00	.2360-01	.1930-01	.2820-01	.9130	.8661-03	.1265-02	.1780	1.440	539.0
53	112.50	.25000	841.00	.6300-02	.5200-02	.7500-02	.9130	.2316-03	.3363-03	.4800-01	.3760	536.3
53	112.50	.27000	842.00	.5000-02	.4100-02	.6000-02	.9130	.1855-03	.2693-03	.3900-01	.2710	536.3
53	112.50	.30000	843.00	.2200-01	.1810-01	.2630-01	.9130	.8084-03	.1179-02	.1670	.9950	538.3
53	112.50	.33000	844.00	.2480-01	.2030-01	.2950-01	.9130	.9092-03	.1323-02	.1880	1.140	537.4
53	112.50	.35000	845.00	.3070-01	.2520-01	.3670-01	.9130	.1129-02	.1645-02	.2330	1.434	538.0
53	112.50	.37000	846.00	.3300-01	.2700-01	.3940-01	.9130	.1210-02	.1763-02	.2500	1.548	537.8
53	112.50	.40000	847.00	.2950-01	.2420-01	.3520-01	.9130	.1082-02	.1574-02	.2240	1.402	537.3
53	112.50	.45000	848.00	.2780-01	.2280-01	.3320-01	.9130	.1019-02	.1486-02	.2100	1.327	538.2
53	112.50	.50000	849.00	.3010-01	.2460-01	.3590-01	.9130	.1103-02	.1610-02	.2270	1.467	538.5
53	112.50	.55000	850.00	.2200-01	.1810-01	.2630-01	.9130	.8094-03	.1178-02	.1670	1.123	537.6
53	112.50	.60000	851.00	.2610-01	.2140-01	.3120-01	.9130	.9584-03	.1399-02	.1970	1.326	538.8
53	112.50	.65000	852.00	.2660-01	.2180-01	.3180-01	.9130	.9742-03	.1423-02	.2000	1.366	539.1
53	112.50	.70000	853.00	.2420-01	.1980-01	.2890-01	.9130	.8875-03	.1296-02	.1820	1.286	538.8
53	112.50	.75000	854.00	.1680-01	.1380-01	.2010-01	.9130	.6194-03	.8992-03	.1290	.8400	536.3
53	112.50	.80000	855.00	.2200-01	.1810-01	.2630-01	.9130	.8096-03	.1179-02	.1670	1.094	537.6
53	112.50	.90000	856.00	.1230-01	.1010-01	.1470-01	.9130	.4542-03	.6569-03	.9500-01	.6220	534.5
53	125.40	.84000	857.00	.2210-01	.1810-01	.2630-01	.9130	.8105-03	.1179-02	.1680	1.042	537.3
53	125.40	.85000	858.00	.2110-01	.1730-01	.2520-01	.9130	.7749-03	.1128-02	.1600	1.000	537.6
53	125.40	.86000	859.00	.2200-01	.1800-01	.2620-01	.9130	.8074-03	.1176-02	.1670	1.051	537.6
53	125.40	.87000	860.00	.2200-01	.1810-01	.2630-01	.9130	.8088-03	.1178-02	.1670	1.056	537.6
53	125.40	.88000	861.00	.2250-01	.1840-01	.2680-01	.9130	.8256-03	.1202-02	.1710	1.078	537.5
53	125.40	.89000	862.00	.2530-01	.2080-01	.3020-01	.9130	.9302-03	.1354-02	.1930	1.223	537.4
53	125.40	.90000	863.00	.1970-01	.1620-01	.2350-01	.9130	.7245-03	.1052-02	.1510	.9640	536.3
53	125.40	.91000	864.00	.9900-02	.8100-02	.1170-01	.9130	.3639-03	.5248-03	.7700-01	.5630	533.1
53	125.40	.92600	865.00	.1010-01	.8300-02	.1210-01	.9130	.3714-03	.5404 0.	.7700-01	.5607	537.3
53	129.30	.81000	867.00	.1720-01	.1410-01	.2050-01	.9130	.6307-03	.9189-03	.1300	.8180	537.9
53	129.30	.82000	868.00	.2310-01	.1890-01	.2750-01	.9130	.8472-03	.1232-02	.1760	1.103	537.0
53	129.30	.83000	869.00	.2420-01	.1990-01	.2890-01	.9130	.8833-03	.1294-02	.1840	1.159	537.4
53	135.00	.40000-01	870.00	.3902	.3076	.3910	.9496	.1378-01	.1751-01	2.424	15.42	568.4
53	135.00	.50000-01	871.00	.4184	.3302	.4271	.9462	.1479-01	.1913-01	2.611	16.52	567.8
53	135.00	.60000-01	872.00	.3617	.2810	.3772	.9429	.1258-01	.1689-01	2.098	13.72	577.6
53	135.00	.70000-01	873.00	.3419	.2669	.3629	.9397	.1195-01	.1625-01	2.028	13.60	574.7
53	135.00	.10000+00	875.00	.1849	.1485	.2037	.9312	.6650-02	.9121-02	1.258	8.221	555.2
53	135.00	.15000	876.00	.8800-01	.7140-01	.1023	.9202	.3195-02	.4580-02	.6280	4.592	547.9
53	135.00	.20000	877.00	.3850-01	.3160-01	.4580-01	.9138	.1413-02	.2051-02	.2920	1.975	538.0
53	135.00	.35000	878.00	.2330-01	.1910-01	.2780-01	.9130	.8542-03	.1244-02	.1770	1.102	537.7
53	135.00	.40000	879.00	.2510-01	.2060-01	.3000-01	.9130	.9231-03	.1345-02	.1900	1.213	538.0

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F15)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
53	135.00	.50000	880.00	.2240-01	.1830-01	.2680-01	.9130	.8213-03	.1198-02	.1690	1.166	538.4
53	135.00	.55000	881.00	.1830-01	.1500-01	.2180-01	.9130	.6706-03	.9762-03	.1390	.9280	537.5
53	135.00	.60000	882.00	.2310-01	.1890-01	.2760-01	.9130	.8454-03	.1235-02	.1740	1.172	539.0
53	135.00	.65000	883.00	.2150-01	.1760-01	.2570-01	.9130	.7897-03	.1153-02	.1620	1.113	538.7
53	135.00	.70000	884.00	.2360-01	.1930-01	.2810-01	.9130	.8646-03	.1260-02	.1790	1.275	537.9
53	135.00	.75000	885.00	.1990-01	.1630-01	.2370-01	.9130	.7315-03	.1061-02	.1520	.9660	536.0
252	35.00	.80000	886.00	.9460-01	.6450-01	.1164	.9278	.3682-02	.6449-02	.4220	2.625	566.4
252	135.00	.84000	887.00	.7590-01	.5980-01	.9460-01	.9130	.2678-02	.4234-02	.0000	.0000	244.7
252	135.00	.85000	888.00	.2070-01	.1660-01	.2550-01	.9130	.7415-03	.1140-02	.1360	.8600	554.9
252	135.00	.87000	890.00	.2100-01	.1680-01	.2580-01	.9130	.7503-03	.1154-02	.1380	.8720	555.0
252	135.00	.88000	891.00	.2230-01	.1780-01	.2750-01	.9130	.7951-03	.1229-02	.1450	.9200	556.7
252	135.00	.89000	892.00	.2120-01	.1690-01	.2610-01	.9130	.7546-03	.1168-02	.1370	.8860	557.1
252	135.00	.91000	894.00	.6700-02	.5300-02	.8200-02	.9130	.2378-03	.3669-03	.4300-01	.3150	556.0
252	135.00	.92600	895.00	.1170-01	.9300-02	.1440-01	.9130	.4171-03	.6467-03	.7500-01	.5460	557.6
252	135.00	.95000	896.00	.1850-01	.1470-01	.2290-01	.9130	.6597-03	.1024-02	.1190	.8560	557.9
252	142.30	.42000	897.00	.2540-01	.2040-01	.3110-01	.9130	.9143-03	.1390-02	.1720	1.101	550.9
252	142.30	.43500	898.00	.2580-01	.2080-01	.3150-01	.9130	.9291-03	.1409-02	.1750	1.094	549.9
252	142.30	.45000	899.00	.2520-01	.2020-01	.3070-01	.9130	.9053-03	.1376-02	.1700	1.111	550.7
252	142.30	.50000	900.00	.2480-01	.1980-01	.3040-01	.9130	.8882-03	.1360-02	.1650	1.092	553.3
252	142.30	.60000	901.00	.2360-01	.1890-01	.2880-01	.9130	.8459-03	.1292-02	.1580	1.043	552.3
252	142.30	.70000	902.00	.2450-01	.1960-01	.3010-01	.9130	.8764-03	.1350-02	.1610	1.091	555.3
252	142.30	.80000	903.00	.2630-01	.2110-01	.3230-01	.9130	.9427-03	.1448-02	.1740	1.099	554.4
252	142.30	.87000	904.00	.2220-01	.1770-01	.2730-01	.9130	.7934-03	.1222-02	.1450	.9140	555.5
252	154.98	.42000	905.00	.2420-01	.1950-01	.2960-01	.9130	.8723-03	.1324-02	.1640	1.057	550.2
252	154.98	.43500	906.00	.2550-01	.2050-01	.3110-01	.9130	.9163-03	.1392-02	.1720	1.115	550.5
252	154.98	.45000	907.00	.2400-01	.1930-01	.2930-01	.9130	.8633-03	.1314-02	.1620	1.053	551.2
252	154.98	.50000	908.00	.2380-01	.1910-01	.2920-01	.9130	.8532-03	.1308-02	.1580	1.124	553.8
252	154.98	.93500	913.00	.1380-01	.1100-01	.1710-01	.9130	.4920-03	.7645-03	.8900-01	.6410	558.3
252	154.98	.94500	914.00	.1300-01	.1030-01	.1610-01	.9130	.4629-03	.7197-03	.8300-01	.5970	558.5
252	157.50	.70000-01	918.00	.3039	.2301	.3290	.9381	.1030-01	.1473-01	1.566	10.67	586.5
252	157.50	.80000-01	919.00	.2788	.2125	.3072	.9352	.9513-02	.1376-01	1.477	9.898	583.3
252	157.50	.10000+00	920.00	.1655	.1296	.1865	.9297	.5804-02	.8350-02	.9880	6.530	568.3
252	157.50	.20000	922.00	.3230-01	.2600-01	.3930-01	.9134	.1164-02	.1761-02	.2200	1.462	541.8
252	157.50	.42000	923.00	.1760-01	.1410-01	.2150-01	.9130	.6334-03	.9627-03	.1190	.7750	550.7
252	157.50	.43500	924.00	.1970-01	.1580-01	.2400-01	.9130	.7087-03	.1076-02	.1330	.8720	550.3
252	157.50	.45000	925.00	.2250-01	.1800-01	.2740-01	.9130	.8081-03	.1227-02	.1520	1.001	550.5
252	157.50	.85000	926.00	.1690-01	.1350-01	.2080-01	.9130	.6045-03	.9305-03	.1110	.7140	555.1
252	157.50	.86000	927.00	.1700-01	.1360-01	.2090-01	.9130	.6085-03	.9369-03	.1120	.7200	555.3
252	157.50	.87000	928.00	.1620-01	.1290-01	.1990-01	.9130	.5774-03	.8904-03	.1060	.6830	555.8
252	157.50	.88000	929.00	.1760-01	.1400-01	.2170-01	.9130	.6283-03	.9704-03	.1150	.7460	556.3
252	157.50	.89000	930.00	.1710-01	.1360-01	.2110-01	.9130	.6084-03	.9445-03	.1100	.7190	558.0
252	157.50	.90000	931.00	.1250-01	.1000-01	.1550-01	.9130	.4467-03	.6928-03	.8100-01	.5420	557.7
252	157.50	.91000	932.00	.4400-02	.3500-02	.5400-02	.9130	.1553-03	.2406-03	.2800-01	.2050	557.4

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OF POOR QUALITY

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
252	157.50	.92600	933.00	.8100-02	.6500-02	.1000-01	.9130	.2893-03	.4492-03	.5200-01	.3790	558.1
252	163.12	.41500	934.00	.1300-01	.1040-01	.1580-01	.9130	.4673-03	.7067-03	.8900-01	.5740	548.9
252	163.12	.42000	935.00	.1480-01	.1190-01	.1810-01	.9130	.5339-03	.8106-03	.1010	.6570	550.3
252	163.12	.43000	937.00	.1570-01	.1260-01	.1920-01	.9130	.5650-03	.8582-03	.1060	.6960	550.5
252	163.12	.44000	938.00	.1820-01	.1460-01	.2230-01	.9130	.6554-03	.9974-03	.1230	.8020	551.2
252	163.12	.44500	939.00	.1810-01	.1450-01	.2210-01	.9130	.6488-03	.9882-03	.1210	.8040	551.5
252	163.12	.45000	940.00	.1860-01	.1490-01	.2270-01	.9130	.6668-03	.1015-02	.1250	.8270	551.4
252	163.12	.50000	941.00	.2340-01	.1870-01	.2870-01	.9130	.8385-03	.1285-02	.1550	1.048	553.6
252	163.12	.60000	942.00	.2420-01	.1940-01	.2960-01	.9130	.8664-03	.1327-02	.1600	1.030	553.6
252	163.12	.70000	943.00	.2110-01	.1680-01	.2590-01	.9130	.7530-03	.1161-02	.1380	.9410	555.8
252	163.12	.80000	944.00	.1780-01	.1420-01	.2190-01	.9130	.6357-03	.9809-03	.1160	.7540	556.0
252	168.00	.35000	945.00	.6900-02	.5600-02	.8400-02	.9130	.2510-03	.3781-03	.4800-01	.3040	547.5
252	168.00	.36000	946.00	.7400-02	.5900-02	.8900-02	.9130	.2662-03	.4002-03	.5100-01	.3250	546.6
252	168.00	.37000	947.00	.7300-02	.5900-02	.8900-02	.9130	.2643-03	.3987-03	.5000-01	.3210	548.0
252	168.00	.37500	948.00	.7900-02	.6400-02	.9600-02	.9130	.2860-03	.4315-03	.5500-01	.3470	548.0
252	168.00	.38500	950.00	.7500-02	.6100-02	.9100-02	.9130	.2714-03	.4084-03	.5200-01	.3350	547.0
252	168.00	.39000	951.00	.8000-02	.6500-02	.9700-02	.9130	.2888-03	.4358-03	.5500-01	.3570	548.0
252	168.00	.39500	952.00	.8200-02	.6600-02	.9900-02	.9130	.2946-03	.4449-03	.5600-01	.3580	548.3
252	168.00	.40000	953.00	.8900-02	.7200-02	.1080-01	.9130	.3206-03	.4849-03	.6100-01	.3950	549.0
252	168.00	.40500	954.00	.1030-01	.8300-02	.1250-01	.9130	.3694-03	.5534-03	.7000-01	.4550	549.4
252	168.00	.41000	955.00	.1030-01	.8300-02	.1260-01	.9130	.3715-03	.5629-03	.7000-01	.4580	549.5
252	168.00	.41500	956.00	.1080-01	.8600-02	.1310-01	.9130	.3872-03	.5870-03	.7300-01	.4780	549.8
252	168.00	.42000	957.00	.1160-01	.9300-02	.1410-01	.9130	.4172-03	.6325-03	.7900-01	.5160	549.8
252	168.00	.42500	958.00	.1420-01	.1140-01	.1740-01	.9130	.5118-03	.7769-03	.9600-01	.6320	550.2
252	168.00	.43000	959.00	.1440-01	.1160-01	.1760-01	.9130	.5192-03	.7891-03	.9800-01	.6370	550.7
252	168.00	.44000	960.00	.1620-01	.1300-01	.1980-01	.9130	.5830-03	.8855-03	.1090	.7170	550.9
252	168.00	.44500	961.00	.1580-01	.1270-01	.1940-01	.9130	.5694-03	.8668-03	.1070	.6980	551.3
252	168.00	.45500	963.00	.1740-01	.1400-01	.2130-01	.9130	.6263-03	.95 0-03	.1170	.7710	551.5
252	168.00	.46000	964.00	.1730-01	.1390-01	.2120-01	.9130	.6229-03	.9481-03	.1160	.7660	552.4
252	168.00	.47000	965.00	.1980-01	.1590-01	.2420-01	.9130	.7089-03	.1083-02	.1320	.8760	552.6
252	168.00	.48000	966.00	.2170-01	.1740-01	.2660-01	.9130	.7784-03	.1192-02	.1440	.9660	553.3
252	168.00	.49000	967.00	.2150-01	.1720-01	.2630-01	.9130	.7720-03	.1179-02	.1440	.9540	552.3
252	168.00	.95000	968.00	.1700-01	.1360-01	.2100-01	.9130	.7031-03	.9335-03	.1110	.7180	555.9
252	168.00	.96000	969.00	.1610-01	.1290-01	.1990-01	.9130	.5762-03	.8810-03	.1050	.6790	555.7
252	168.00	.87000	970.00	.1700-01	.1360-01	.2100-01	.9130	.6079-03	.9304-03	.1100	.7170	556.8
252	168.00	.88000	971.00	.1630-01	.1270-01	.1980-01	.9130	.5700-03	.8852-03	.1030	.6690	559.1
252	168.00	.89000	972.00	.1590-01	.1260-01	.1970-01	.9130	.5661-03	.8819-03	.1020	.6700	559.1
252	168.00	.90000	973.00	.1200-01	.9500-02	.1490-01	.9130	.4287-03	.6651-03	.7800-01	.5250	557.8
252	168.00	.91000	974.00	.4400-02	.3500-02	.5400-02	.9130	.1572-03	.2438-03	.2800-01	.2050	557.6
252	168.00	.92600	975.00	.7500-02	.6000-02	.9300-02	.9130	.2684-03	.4180-03	.4800-01	.3470	559.0
252	168.00	.95000	976.00	.1790-01	.1420-01	.2210-01	.9130	.6353-03	.9890-03	.1140	.8170	558.9
252	180.00	.20000-01	982.00	.4270-01	.3420-01	.4220-01	.9524	.1533-02	.1888-02	.2870	1.988	551.6
252	180.00	.25000-01	983.00	.8780-01	.7010-01	.8760-01	.9505	.3139-02	.3921-02	.5750	3 959	555.2

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGF'TED VEHICLE

(RV7F15)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
252	180.00	.30000-01	984.00	.2307	.1793	.2322	.9488	.8029-02	.1040-01	1.332	9.030	572.6
252	209.80	.15000-01	697.00	.2561	.1852	.3071	.9283	.1024-01	.1698-01	.0000	.0000	539.9
52	209.80	.30000-01	698.00	.2719	.2155	.2720	.9499	.9651-02	.1218-01	1.734	11.69	564.9
52	209.80	.50000-01	699.00	.4102	.3230	.4217	.9449	.1446-01	.1869-01	2.533	15.92	569.5
52	209.80	.70000-01	700.00	.3115	.2434	.3329	.9385	.1090-01	.1490-01	1.856	12.38	574.2
52	209.80	.10000+00	701.00	.1706	.1363	.1896	.9301	.6105-02	.8492-02	1.131	7.163	559.4
52	209.80	.15000	702.00	.7640-01	.6160-01	.89FJ-01	.9194	.2761-02	.4007-02	.5320	3.798	551.8
52	209.80	.20000	703.00	.3370-01	.2750-01	.4030-01	.9135	.1230-02	.1805-02	.2490	1.659	542.5
52	209.80	.30000	704.00	.8600-02	.7100-02	.1040-01	.9130	.3166-03	.4638-03	.6500-01	.4590	540.5
52	209.80	.35000	705.00	.1050-01	.8600-02	.1260-01	.9130	.3836-03	.5629-03	.7800-01	.5360	541.2
52	209.80	.37500	706.00	.1080-01	.8800-02	.1290-01	.9130	.3953-03	.5796-03	.8100-01	.5550	540.8
52	209.80	.50000	707.00	.2490-01	.2040-01	.2990-01	.9130	.9131-03	.1338-02	.1860	1.279	540.6
52	209.80	60000	708.00	.1470-01	.1200-01	.1770-01	.9130	.5392-03	.7914-03	.1100	.7010	541.3
52	209.80	.70000	709.00	.2540-01	.2080-01	.3050-01	.9130	.9311-03	.1366-02	.1890	1.211	541.0
52	209.80	.80000	710.00	.2190-01	.1790-01	.2630-01	.9130	.8018-03	.1177-02	.1630	1.017	541.5
52	209.80	.87000	711.00	.2730-01	.2230-01	.3280-01	.9130	.9955-03	.1469-02	.2010	1.270	543.2
52	209.80	.92600	712.00	.9100-02	.7400-02	.1090-01	.9130	.3317-03	.4870-03	.6700-01	.4910	541.4
52	217.70	.30000-01	714.00	.2806	.2215	.2799	.9505	.9917-02	.1253-01	1.751	11.79	568.0
52	217.70	.50000-01	715.00	.4119	.3239	.4222	.9455	.1450-01	.1891-01	2.527	16.29	570.4
52	217.70	.70000-01	716.00	.3407	.2640	.3638	.9391	.1182-01	.1629-01	1.956	13.13	579.2
52	217.70	.10000+00	717.00	.1824	.1458	.2021	.9306	.6528-02	.9050-02	1.210	7.801	559.2
52	217.70	.15000	718.00	.8070-01	.6520-01	.9420-01	.9198	.2918-02	.4220-02	.5650	4.125	551.0
52	217.70	.20000	719.00	.3400-01	.2780-01	.4060-01	.9137	.1245-02	.1820-02	.2530	1 711	541.2
52	217.70	.30000	720.00	.9900-02	.8100-02	.1190-01	.9130	.3637-03	.5330-03	.7400-01	.5320	540.6
52	217.70	.35000	721.00	.1200-01	.9800-02	.1440-01	.9130	.4392-03	.6429-03	.8900-01	.6200	541.1
52	217.70	.37500	722.00	.1530-01	.1250-01	.1830-01	.9130	.5595-03	.8214-03	.1140	.7930	541.4
52	217.70	.50000	723.00	.2270-01	.1850-01	.2710-01	.9130	.8300-03	.1214-02	.1700	1.179	539.7
52	217.70	.60000	724.00	.2650-01	.2170-01	.3180-01	.9130	.9707-03	.1422-02	.1980	1.271	540.5
52	217.70	.70000	725.00	.2580-01	.2110-01	.3090-01	.9130	.9437-03	.1382-02	.1930	1.229	540.3
52	217.70	.80000	726.00	.2260-01	.1850-01	.2710-01	.9130	.8274-03	.1214-02	.1680	1.062	541.0
52	217.70	.87000	727.00	.2500-01	.2040-01	.3000-01	.9130	.9121-03	.1341-02	.1855	1.183	542.2
52	217.70	.92600	728.00	.1090-01	.8900-02	.1300-01	.9130	.3972-03	.5827-03	.8100-01	.5890	541.1

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F16)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = 5.000 BETA = -3.000 GRIT = 3.000 RN/L = 5.000

•••TEST CONDITIONS•••

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
304	2.500	4.836	5.000	3.000	-31.00	32.00	1.872	661.0	293.8	8.191	2100.	.5347-03
305	2.500	4.836	5.000	3.000	-31.00	32.00	1.871	661.0	293.6	8.185	2099.	.5345-03
306	2.500	4.840	5.010	3.000	-31.00	32.00	1.874	661.0	293.8	8.197	2100.	.5351-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
304	.2321-06	.6254-01	.6976-02
305	.2320-06	.6251-01	.6976-02
306	.2321-06	.6256-01	.6973-02

•••TEST DATA•••

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
305	.00000	.30000-02	730.00	.5477	.3099	.3493	.9870	.1937-01	.2184-01	1.474	9.930	5[illegible].6
305	.00000	.10300-01	731.00	.3830	.2384	.4163	.9434	.1490-01	.2603-01	1.303	8.959	573.2
305	.00000	.15000-01	732.00	.4297	.2588	.4707	.9434	.1618-01	.2942-01	1.344	9.005	577.6
305	.00000	.20000-01	733.00	.6285	.3377	.3839	.9870	.2111-01	.2400-01	1.507	10.13	589.3
305	.00000	.25000-01	734.00	1.201	.4595	.5479	.9569	.2872-01	.3425-01	1.537	10.15	601.3
305	.00000	.30000-01	735.00	1.049	.4653	.5575	.9851	.2893-01	.3465-01	1.727	11.51	601.3
305	.00000	.40000-01	737.00	.7065	.3042	.4617	.9835	.2404-01	.2884-01	1.541	11.78	595.0
305	.00000	.45000-01	738.00	.7413	.4047	.4856	.9316	.2830-01	.3046-01	1.341	11.94	597.9
305	.00000	.50000-01	739.00	.6628	.3168	.4213	.9762	.1990-01	.2634-01	1.253	8.215	597.4
305	.00000	.60000-01	739.00	.7177	.3264	.4636	.9729	.2040-01	.2898-01	1.236	8.140	600.1
305	.00000	.70000-01	740.00	.5820	.2707	.4007	.9697	.1692-01	.2505-01	1.045	7.405	598.9
305	.00000	.80000-01	741.00	.4249	.2452	.3531	.9639	.1633-01	.2207-01	1.197	7.857	592.6
305	.00000	.10000+00	742.00	.3354	.1847	.2989	.9576	.1154-01	.1868-01	.8450	6.022	587.5
305	.00000	.12500	743.00	.3059	.1778	.2949	.9526	.1111-01	.1843-01	.8760	5.988	581.8
305	.00000	.15000	744.00	.2202	.1329	.2241	.9487	.8305-02	.1401-01	.6920	5.120	577.4
305	.00000	.17500	745.00	.1796	.1139	.1887	.9458	.7118-02	.1180-01	.6420	4.540	570.5
305	.00000	.20000	746.00	.1682	.1072	.1792	.9446	.6699-02	.1120-01	.6100	4.178	569.7
305	.00000	.21500	747.00	.1497	.9480-01	.1613	.9438	.5925-02	.1008-01	.5330	3.896	570.7
305	.00000	.23000	748.00									

(RV7F'15)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
305	.00000	.24000	749.00	.1309	.8350-01	.1415	.9434	.5221-02	.8847-02	.4760	3.551	559.5
305	.00000	.25000	750.00	.7710-01	.5050-01	.8290-01	.9434	.3155-02	.5181-02	.3020	2.418	565.1
305	.00000	.30000	751.00	.1300	.8460-01	.1399	.9434	.5286-02	.8746-02	.5030	3.247	556.2
305	.00000	.40000	753.00	.1370	.9000-01	.1471	.9434	.5624-02	.9197-02	.5410	3.450	554.4
305	.00000	.50000	754.00	.1359	.8760-01	.1479	.9434	.5474-02	.9248-02	.5020	3.246	559.1
305	.00000	.60000	755.00	.1359	.8780-01	.1479	.9434	.5489-02	.9243-02	.5050	3.205	568.6
305	.00000	.70000	756.00	.1242	.7600-01	.1356	.9434	.4751-02	.8476-02	.4040	2.631	575.6
305	.00000	.80000	757.00	.1270	.7870-01	.1382	.9434	.4918-02	.8641-02	.4270	2.639	573.9
305	.00000	.90000	759.00	.7960-01	.4890-01	.8680-01	.9434	.3056-02	.5427-02	.2610	1.667	575.1
305	55.000	.22300	759.00	.1534	.9740-01	.1640	.9444	.6087-02	.1025-01	.5500	4.047	570.3
305	55.000	.25000	760.00	.8900-01	.5800-01	.9570-01	.9435	.3825-02	.5982-02	.3440	2.365	565.9
305	55.000	.27000	761.00	.9780-01	.6240-01	.1057	.9435	.3930-02	.6605-02	.3560	2.618	563.5
305	55.000	.30000	762.00	.1332	.8720-01	.1431	.9435	.5448-02	.8947-02	.5200	3.099	556.2
305	55.000	.32000	763.00	.1381	.9080-01	.1482	.9435	.5675-02	.9261-02	.5470	3.211	554.2
305	55.000	.34000	764.00	.1472	.9700-01	.1579	.9435	.6064-02	.9872-02	.5870	3.454	553.9
305	55.000	.36000	765.00	.1453	.9620-01	.1557	.9435	.6012-02	.9731-02	.5880	3.504	553.0
305	55.000	.38000	766.00	.1479	.9820-01	.1583	.9435	.6137-02	.9898-02	.6030	3.639	552.4
305	55.000	.40000	767.00	.1419	.9420-01	.1519	.9435	.5896-02	.9495-02	.5780	3.594	552.5
305	67.500	.23000	768.00	.1431	.9160-01	.1539	.9437	.5727-02	.9822-02	.5260	3.872	568.3
305	67.500	.25000	769.00	.8430-01	.5490-01	.9040-01	.9434	.3435-02	.5851-02	.3380	2.525	565.3
305	67.500	.27000	770.00	.1131	.7260-01	.1221	.9434	.4540-02	.7633-02	.4190	3.026	558.3
305	67.500	.29000	771.00	.9720-01	.6410-01	.1043	.9434	.4008-02	.6521-02	.3690	2.782	563.6
305	67.500	.30000	772.00	.1239	.8100-01	.1333	.9434	.5061-02	.8333-02	.4820	2.922	555.4
305	67.500	.31000	773.00	.1314	.9580-01	.1414	.9434	.5363-02	.8838-02	.5110	3.065	557.5
305	67.500	.32000	774.00	.1295	.8520-01	.1393	.9434	.5325-02	.8706-02	.5130	3.080	554.3
305	67.500	.32500	775.00	.1321	.8720-01	.1419	.9434	.5449-02	.8868-02	.5290	3.162	553.6
305	67.500	.33000	776.00	.1395	.9190-01	.1498	.9434	.5742-02	.9355-02	.5550	3.329	554.0
305	67.500	.33500	777.00	.1403	.9250-01	.1506	.9434	.5783-02	.9414-02	.5610	3.364	553.7
305	67.500	.34000	778.00	.1389	.9170-01	.1491	.9434	.5732-02	.9320-02	.5570	3.340	553.5
305	67.500	.34500	779.00	.1424	.9390-01	.1529	.9434	.5871-02	.9557-02	.5700	3.425	553.7
305	67.500	.35000	780.00	.1359	.8990-01	.1459	.9434	.5519-02	.9116-02	.5480	3.305	553.1
305	67.500	.35000	782.00	.1351	.8930-01	.1450	.9434	.5583-02	.9062-02	.5440	3.290	553.2
305	67.500	.36500	783.00	.1371	.9100-01	.1470	.9434	.5685-02	.9185-02	.5580	3.367	552.5
305	67.500	.37000	784.00	.1317	.8760-01	.1412	.9434	.5477-02	.8824-02	.5400	3.277	552.0
305	67.500	.37500	785.00	.1284	.8530-01	.1377	.9434	.5330-02	.8604-02	.5240	3.205	552.3
305	67.500	.38000	786.00	.1316	.8720-01	.1411	.9434	.5453-02	.8821-02	.5340	3.276	552.7
305	67.500	.39000	787.00	.1365	.9030-01	.1465	.9434	.5642-02	.9156-02	.5500	3.382	553.2
305	67.500	.40000	788.00	.1133	.7470-01	.1216	.9434	.4672-02	.7604-02	.4540	2.811	553.6
305	67.500	.50000	789.00	.1290	.8280-01	.1394	.9434	.5175-02	.8714-02	.4770	3.024	568.5
305	67.500	.60000	790.00	.1320	.8500-01	.1425	.9434	.5311-02	.8910-02	.4920	3.196	568.0
305	67.500	.70000	791.00	.1216	.7430-01	.1328	.9434	.4643-02	.8301-02	.3940	2.744	575.8
305	67.500	.80000	792.00	.1302	.8200-01	.1412	.9434	.5128-02	.8826-02	.4580	2.843	571.4
305	67.500	.90000	793.00	.8630-01	.5320-01	.9400-01	.9434	.3323-02	.5879-02	.2860	1.819	574.6

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F16)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF P= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
305	78.000	.27000	794.00	.1058	.6850-01	.1156	.9432	.4281-02	.7226-02	.3940	2.778	568.7
305	78.000	.29000	795.00	.9350-01	.6200-01	.1004	.9432	.3876-02	.6274-02	.3800	2.325	562.6
306	78.000	.30000	796.00	.1313	.8660-01	.1411	.9432	.5428-02	.8830-02	.5290	3.178	563.6
306	78.000	.31000	797.00	.1344	.8890-01	.1444	.9432	.5557-02	.9035-02	.5420	3.255	563.5
306	78.000	.32000	798.00	.1369	.9050-01	.1470	.9432	.5662-02	.9199-02	.5520	3.302	563.4
306	78.000	.32500	799.00	.1359	.9090-01	.1469	.9432	.5688-02	.9193-02	.5600	3.357	562.6
306	78.000	.33000	800.00	.1377	.9110-01	.1479	.9432	.5699-02	.9254-02	.5570	3.337	563.3
306	78.000	.33500	801.00	.1350	.8950-01	.1460	.9432	.5663-02	.9131-02	.5590	3.356	562.2
306	78.000	.34000	802.00	.1313	.8740-01	.1409	.9432	.5468-02	.8813-02	.5400	3.241	562.1
306	78.000	.34500	803.00	.1333	.8830-01	.1429	.9432	.5562-02	.8942-02	.5520	3.320	561.7
306	78.000	.35000	804.00	.1341	.8930-01	.1439	.9432	.5586-02	.9001-02	.5520	3.323	562.1
306	78.000	.35500	805.00	.1354	.9050-01	.1452	.9432	.5659-02	.9081-02	.5630	3.389	561.4
306	78.000	.36000	806.00	.1292	.8670-01	.1384	.9432	.5425-02	.8656-02	.5450	3.291	560.5
306	78.000	.36500	807.00	.1295	.8680-01	.1387	.9432	.5429-02	.8680-02	.5440	3.291	560.8
306	78.000	.37000	808.00	.1341	.8950-01	.1438	.9432	.5601-02	.8994-02	.5570	3.379	561.5
306	78.000	.37500	809.00	.1334	.8900-01	.1430	.9432	.5570-02	.8948-02	.5630	3.358	561.6
306	78.000	.38000	810.00	.1258	.8410-01	.1348	.9432	.5256-02	.8433-02	.5240	3.197	561.3
306	78.000	.38500	811.00	.1302	.8690-01	.1398	.9432	.5405-02	.8746-02	.5310	3.245	562.8
306	78.000	.39000	812.00	.1005	.6840-01	.1073	.9432	.4278-02	.6710-02	.4430	2.715	557.4
306	78.000	.40000	813.00	.2140-01	.1520-01	.2270-01	.9434	.9486-03	.1419-02	.1070	.7790	548.0
306	90.000	.20000	814.00	.1252	.8110-01	.1354	.9431	.5071-02	.8470-02	.4750	3.804	567.3
306	90.000	.24000	816.00	.1138	.7410-01	.1228	.9431	.4637-02	.7684-02	.4390	3.093	566.2
306	90.000	.27000	817.00	.1035	.6880-01	.1112	.9431	.4307-02	.6958-02	.4250	2.620	562.3
306	90.000	.29000	818.00	.1402	.9190-01	.1511	.9431	.5751-02	.9451-02	.5520	3.344	565.0
306	90.000	.30000	819.00	.1386	.9000-01	.1469	.9431	.5633-02	.9187-02	.5470	3.290	563.8
306	90.000	.31000	820.00	.1330	.8840-01	.1429	.9431	.5533-02	.8941-02	.5460	3.273	562.3
306	90.000	.32000	821.00	.1328	.8810-01	.1429	.9431	.5513-02	.8938-02	.5410	3.235	562.9
306	90.000	.32500	822.00	.1299	.8650-01	.1394	.9431	.5433-02	.8718-02	.5420	3.252	561.2
306	90.000	.33000	823.00	.1332	.8880-01	.1428	.9431	.5592-02	.8935-02	.5530	3.347	560.8
306	90.000	.34000	824.00	.1291	.8630-01	.1384	.9431	.5437-02	.8657-02	.5490	3.299	559.9
306	90.000	.34500	825.00	.1309	.8750-01	.1405	.9431	.5477-02	.8789-02	.5460	3.279	561.2
306	90.000	.35000	826.00	.1302	.8690-01	.1398	.9431	.5433-02	.8745-02	.5390	3.226	561.7
306	90.000	.35500	827.00	.1302	.8690-01	.1398	.9431	.5374-02	.8632-02	.5350	3.213	561.4
306	90.000	.36000	828.00	.1285	.8600-01	.1380	.9431	.5353-02	.8626-02	.5410	3.256	559.9
306	90.000	.36500	829.00	.1295	.8660-01	.1393	.9431	.5449-02	.8718-02	.5460	3.307	560.7
306	90.000	.37000	830.00	.1272	.8510-01	.1363	.9431	.5306-02	.8515-02	.5230	3.168	560.4
306	90.000	.37500	831.00	.1289	.8610-01	.1394	.9431	.5430-02	.8630-02	.5120	3.133	561.1
306	90.000	.38000	832.00	.1243	.8330-01	.1329	.9431	.5253-02	.8441-02	.5240	3.217	561.3
306	90.000	.38500	833.00	.1286	.8600-01	.1386	.9431	.5320-02	.8821-02	.5040	3.154	566.3
306	90.000	.39000	834.00	.1257	.8420-01	.1349	.9431	.5242-02	.8613-02	.5030	3.323	564.9
306	90.000	.40000	835.00	.1206	.8080-01	.1310	.9431	.4956-02	.7781-02	.4130	2.874	570.3
306	90.000	.50000	836.00	.1144	.7680-01	.1244	.9431	.4921-02	.8198-02	.4630	2.646	566.9
306	90.000	.60000	837.00	.1213	.8150-01	.1310	.9431	.3531-02	.5896-02	.3310	2.093	567.3
306	90.000	.80000	838.00	.8710-01	.5840-01	.9430-01	.9431					
306	90.000	.90000	839.00									

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F16)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
306	112.50	.23000	840.00	.1176	.7740-01	.1267	.9431	.4844-02	.7926-02	.4690	3.744	564.2
306	112.50	.25000	841.00	.7220-01	.4850-01	.7750-01	.9430	.3036-02	.4848-02	.3060	2.356	560.2
306	112.50	.30000	843.00	.1038	.6930-01	.1116	.9430	.4335-02	.6982-02	.4310	2.542	561.6
306	112.50	.33000	844.00	.1198	.8030-01	.1286	.9430	.5021-02	.8046-02	.5030	3.012	560.8
306	112.50	.35000	845.00	.1105	.7850-01	.1250	.9430	.4909-02	.7820-02	.4970	3.024	559.8
306	112.50	.37000	846.00	.1184	.7950-01	.1271	.9430	.4972-02	.7948-02	.5000	3.062	560.4
306	112.50	.40000	847.00	.1043	.7050-01	.1118	.9430	.4411-02	.6995-02	.4500	2.786	559.0
306	112.50	.45000	848.00	.1143	.7700-01	.1226	.9430	.4819-02	.7670-02	.4890	3.050	559.6
306	112.50	.50000	849.00	.1117	.7380-01	.1203	.9430	.4619-02	.7526-02	.4500	2.672	563.4
306	112.50	.55000	850.00	.8480-01	.5660-01	.9110-01	.9430	.3542-02	.5702-02	.3520	2.337	561.5
306	112.50	.60000	851.00	.1106	.7350-01	.1190	.9430	.4598-02	.7445-02	.4530	3.011	562.5
306	112.50	.65000	852.00	.1166	.7710-01	.1256	.9430	.4823-02	.7860-02	.4700	3.172	563.5
306	112.50	.70000	853.00	.1034	.6740-01	.1117	.9430	.4218-02	.6989-02	.4010	2.786	565.9
306	112.50	.75000	854.00	.7770-01	.5080-01	.8390-01	.9430	.3178-02	.5247-02	.3040	1.951	565.4
306	112.50	.80000	855.00	.1077	.7100-01	.1160	.9430	.4444-02	.7260-02	.4320	2.783	563.9
306	112.50	.90000	856.00	.7560-01	.4970-01	.8150-01	.9430	.3107-02	.5101-02	.3000	1.925	564.6
306	125.40	.84000	857.00	.1032	.6910-01	.1108	.9430	.4322-02	.6934-02	.4320	2.653	560.9
306	125.40	.85000	858.00	.1013	.6760-01	.1090	.9430	.4229-02	.6816-02	.4200	2.588	561.7
306	125.40	.86000	859.00	.1022	.6810-01	.1099	.9430	.4258-02	.6876-02	.4210	2.621	562.0
306	125.40	.87000	860.00	.9850-01	.6570-01	.1059	.9430	.4109-02	.6627-02	.4080	2.542	561.8
306	125.40	.88000	861.00	.9800-01	.6500-01	.1055	.9430	.4067-02	.6602-02	.3990	2.488	562.8
306	125.40	.89000	862.00	.1020	.6770-01	.1098	.9430	.4235-02	.6867-02	.4160	2.609	562.7
306	125.40	.90000	863.00	.9590-01	.6380-01	.1032	.9430	.3991-02	.6454-02	.3940	2.485	562.2
306	125.40	.91000	864.00	.5930-01	.4020-01	.6350-01	.9430	.2513-02	.3975-02	.2590	1.861	558.5
306	125.40	.92600	865.00	.6630-01	.4350-01	.7150-01	.9430	.2724-02	.4471-02	.2630	1.886	564.6
306	129.30	.80000	866.00	.1003	.6690-01	.1079	.9430	.4185-02	.6748-02	.4150	2.590	561.8
306	129.30	.81000	867.00	.9720-01	.6490-01	.1045	.9430	.4063-02	.6536-02	.4050	2.510	561.4
306	129.30	.82000	868.00	.1005	.6740-01	.1079	.9430	.4219-02	.6749-02	.4240	2.631	560.5
306	129.30	.83000	869.00	.1027	.6870-01	.1103	.9430	.4295-02	.6901-02	.4280	2.665	561.2
306	135.00	.40000-01	870.00	.5204	.3039	.3947	.9723	.1901-01	.2470-01	1.510	9.545	581.5
306	135.00	.50000-01	871.00	.5700	.3298	.4465	.9690	.2063-01	.2793-01	1.618	10.16	582.5
306	135.00	.60000-01	872.00	.5787	.2973	.4451	.9658	.1860-01	.2785-01	1.264	8.201	593.0
306	135.00	.70000-01	873.00	.5998	.2976	.4751	.9629	.1862-01	.2972-01	1.221	8.108	595.4
306	135.00	.10000+00	875.00	.3892	.2303	.3618	.9555	.1441-01	.2263-01	1.166	7.525	580.0
306	135.00	.15000	876.00	.2441	.1445	.2538	.9472	.9037-02	.1588-01	.7310	5.265	580.0
306	135.00	.20000	877.00	.1615	.1047	.1737	.9435	.6548-02	.1087-01	.6150	4.106	567.0
306	135.00	.35000	878.00	.1070	.7230-01	.1147	.9430	.4523-02	.7176-02	.4610	2.847	559.1
306	135.00	.40000	879.00	.1041	.7020-01	.1116	.9430	.4389-02	.6983-02	.4050	2.802	559.6
306	135.00	.50000	880.00	.8880-01	.5940-01	.9550-01	.9430	.3714-02	.5974-02	.3700	2.521	561.4
306	135.00	.55000	881.00	.7720-01	.5200-01	.8280-01	.9430	.3256-02	.5180-02	.3300	2.186	559.5
306	135.00	.60000	882.00	.1038	.6940-01	.1115	.9430	.4341-02	.6977-02	.4330	2.888	561.3
306	135.00	.65000	883.00	.9490-01	.6380-01	.1018	.9430	.3989-02	.6370-02	.4020	2.725	560.2
306	135.00	.70000	884.00	.9610-01	.6360-01	.1035	.9430	.3981-02	.6474-02	.3890	2.745	563.1

(RV7F16)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
306	135.00	.75000	885.00	.8780-01	.5860-01	.9440-01	.9430	.3668-02	.5906-02	.3650	2.282	561.5
306	135.00	.80000	886.00	.1001	.6750-01	.1074	.9430	.4224-02	.5717-02	.4290	2.678	559.4
306	135.00	.84000	887.00	.7590-01	.5980-01	.9460-01	.9130	.2678-02	.4234-02	.0000	.0000	244.7
304	180.00	.40000-01	600.00	.4140	.2421	.3337	.9670	.1514-01	.2087-01	1.205	7.614	581.4
304	180.00	.50000-01	601.00	.4454	.2579	.3708	.9638	.1613-01	.2319-01	1.266	8.019	582.5
304	180.00	.60000-01	602.00	.4414	.2356	.3705	.9610	.1474-01	.2317-01	1.245	6.811	590.1
304	180.00	.70000-01	603.00	.5216	.2438	.4384	.9583	.1524-01	.2742-01	.9460	6.289	599.0
304	180.00	.80000-01	604.00	.4094	.2193	.3712	.9559	.1371-01	.2321-01	.9760	6.214	589.8
304	180.00	.10000+00	605.00	.2600	.1545	.2536	.9518	.9663-02	.1586-01	.7870	5.559	579.5
304	180.00	.15000	606.00	.1704	.1020	.1820	.9452	.6378-02	.1138-01	.5250	3.756	578.7
304	180.00	.20000	607.00	.1205	.7740-01	.1306	.9430	.4838-02	.8168-02	.4470	2.882	569.7
304	180.00	.21000	608.00	.1057	.6850-01	.1144	.9430	.4286-02	.7152-02	.4030	2.757	567.0
304	180.00	.22000	609.00	.8680-01	.5640-01	.9390-01	.9430	.3529-02	.5871-02	.3330	2.457	566.5
304	180.00	.30000	610.00	.7060-01	.4690-01	.7600-01	.9430	.2930-02	.4754-02	.2880	1.954	562.8
304	180.00	.35000	611.00	.8480-01	.5640-01	.9130-01	.9430	.3528-02	.5707-02	.3480	2.300	562.3
304	180.00	.36000	612.00	.7370-01	.4910-01	.7920-01	.9430	.3068-02	.4956-02	.3030	2.023	562.1
304	180.00	.37500	614.00	.8010-01	.5310-01	.8620-01	.9430	.3323-02	.5389-02	.3260	2.176	562.8
304	180.00	.38000	615.00	.7880-01	.5230-01	.8480-01	.9430	.3269-02	.5305-02	.3210	2.140	562.8
304	180.00	.38500	616.00	.8430-01	.5600-01	.9070-01	.9430	.3504-02	.5674-02	.3450	2.302	562.5
304	180.00	.39000	617.00	.7790-01	.5280-01	.8340-01	.9430	.3299-02	.5218-02	.3390	2.252	558.5
304	180.00	.39500	618.00	.8410-01	.5610-01	.9050-01	.9430	.3507-02	.5658-02	.3480	2.325	561.9
304	180.00	.40000	619.00	.9000-01	.6000-01	.9670-01	.9430	.3750-02	.6050-02	.3720	2.471	561.9
304	180.00	.40500	620.00	.8820-01	.5870-01	.9480-01	.9430	.3673-02	.5930-02	.3640	2.425	562.0
304	180.00	.41000	621.00	.9410-01	.6250-01	.1012	.9430	.3911-02	.6330-02	.3860	2.571	562.4
304	180.00	.41500	622.00	.9780-01	.6510-01	.1052	.9430	.4072-02	.6579-02	.4030	2.678	562.1
304	180.00	.42500	624.00	.8770-01	.5790-01	.9450-01	.9430	.3619-02	.5909-02	.3520	2.338	563.8
304	180.00	.43000	625.00	.8330-01	.5510-01	.8980-01	.9430	.3443-02	.5613-02	.3360	2.236	563.5
304	180.00	.44000	626.00	.7900-01	.5240-01	.8500-01	.9430	.3275-02	.5315-02	.3210	2.143	562.9
304	180.00	.44500	627.00	.8040-01	.5320-01	.8650-01	.9430	.3326-02	.5412-02	.3250	2.186	563.3
304	180.00	.45000	628.00	.8230-01	.5430-01	.8870-01	.9430	.3396-02	.5547-02	.3300	2.220	563.8
304	180.00	.45500	629.00	.7740-01	.5140-01	.8330-01	.9430	.3217-02	.5209-02	.3170	2.166	562.5
304	180.00	.46000	630.00	.7990-01	.5300-01	.8610-01	.9430	.3315-02	.5381-02	.3250	2.168	562.9
304	180.00	.47000	631.00	.7930-01	.5220-01	.8550-01	.9430	.3267-02	.5348-02	.3160	2.108	564.2
304	180.00	.48000	632.00	.8090-01	.5340-01	.8720-01	.9430	.3339-02	.5453-02	.3250	2.176	563.8
304	180.00	.49000	633.00	.8010-01	.5300-01	.8630-01	.9430	.3313-02	.5398-02	.3230	2.187	563.4
304	180.00	.50000	634.00	.6690-01	.4450-01	.7200-01	.9430	.2786-02	.4502-02	.2750	1.911	562.2
304	180.00	.55000	635.00	.6520-01	.4320-01	.7030-01	.9430	.2703-02	.4394-02	.2650	1.743	563.1
304	180.00	.60000	636.00	.8340-01	.5480-01	.9000-01	.9430	.3426-02	.5626-02	.3300	2.110	564.6
304	180.00	.65000	637.00	.8600-01	.5650-01	.9270-01	.9430	.3535-02	.5799-02	.3410	2.186	564.5
304	180.00	.70000	638.00	.7650-01	.5030-01	.8260-01	.9430	.3147-02	.5163-02	.3040	2.061	564.5
304	180.00	.75000	639.00	.6020-01	.3990-01	.6480-01	.9430	.2495-02	.4054-02	.2450	1.564	563.0
304	180.00	.80000	640.00	.7370-01	.4870-01	.7950-01	.9430	.3044-02	.4970-02	.2960	1.839	563.8
304	180.00	.85000	641.00	.7420-01	.4850-01	.8010-01	.9430	.3032-02	.5011-02	.2890	1.812	565.6

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
304	180.00	.86000	642.00	.7470-01	.4880-01	.8070-01	.9430	.3051-02	.5044-02	.2910	1.848	565.6
304	180.00	.87000	643.00	.8080-01	.5250-01	.8740-01	.9430	.3285-02	.5464-02	.3100	1.982	566.5
304	180.00	.88000	644.00	.8480-01	.5520-01	.9160-01	.9430	.3451-02	.5730-02	.3270	2.107	566.3
304	180.00	.89000	645.00	.7720-01	.5010-01	.8350-01	.9430	.3135-02	.5223-02	.2950	1.925	566.8
304	180.00	.90000	646.00	.6200-01	.4100-01	.6680-01	.9430	.2562-02	.4180-02	.2490	1.662	563.7
304	180.00	.95000	649.00	.7450-01	.4870-01	.8040-01	.9430	.3044-02	.5029-02	.2910	2.080	565.5
304	191.25	.35000	650.00	.8390-01	.5550-01	.9040-01	.9430	.3470-02	.5654-02	.3380	2.255	563.5
304	191.25	.36000	651.00	.7580-01	.5040-01	.8160-01	.9430	.3153-02	.5102-02	.3110	2.080	562.4
304	191.25	.37000	652.00	.7690-01	.5120-01	.8270-01	.9430	.3204-02	.5169-02	.3180	2.118	561.9
304	191.25	.37500	653.00	.7520-01	.5440-01	.7950-01	.9430	.3404-02	.4969-02	.4070	2.752	541.4
304	191.25	.38000	654.00	.7710-01	.5140-01	.8290-01	.9430	.3214-02	.5183-02	.3190	2.132	561.8
304	191.25	.38500	655.00	.7560-01	.5030-01	.8140-01	.9430	.3146-02	.5089-02	.3100	2.077	562.3
304	191.25	.39000	656.00	.7000-01	.4650-01	.7530-01	.9430	.2909-02	.4711-02	.2860	1.916	562.5
304	191.25	.39500	657.00	.7770-01	.5160-01	.8360-01	.9430	.3227-02	.5228-02	.3180	2.125	562.6
304	191.25	.40000	658.00	.7990-01	.5290-01	.8600-01	.9430	.3307-02	.5380-02	.3230	2.169	563.2
304	191.25	.41000	660.00	.7900-01	.5230-01	.8510-01	.9430	.3271-02	.5321-02	.3200	2.139	563.2
304	191.25	.41500	661.00	.7780-01	.5180-01	.8370-01	.9430	.3241-02	.5234-02	.3210	2.138	562.1
304	191.25	.42000	662.00	.8540-01	.5630-01	.9210-01	.9430	.3520-02	.5761-02	.3410	2.278	564.2
304	191.25	.42500	663.00	.8170-01	.5390-01	.8810-01	.9430	.3372-02	.5508-02	.3280	2.197	563.8
304	191.25	.43000	664.00	.8210-01	.5410-01	.8850-01	.9430	.3381-02	.5533-02	.3280	2.216	564.1
304	191.25	.44000	665.00	.8230-01	.5410-01	.8880-01	.9430	.3384-02	.5555-02	.3260	2.194	564.6
304	191.25	.45000	666.00	.8620-01	.5680-01	.9300-01	.9430	.3555-02	.5814-02	.3450	2.318	564.0
304	191.25	.45500	667.00	.8780-01	.5790-01	.9460-01	.9430	.3622-02	.5916-02	.3520	2.366	563.9
304	191.25	.46000	668.00	.8530-01	.5650-01	.9190-01	.9430	.3536-02	.5744-02	.3470	2.339	563.0
304	191.25	.47000	669.00	.9710-01	.6400-01	.1046	.9430	.4003-02	.6543-02	.3880	2.628	564.0
304	191.25	.48000	670.00	.9280-01	.6130-01	.1000+00	.9430	.3831-02	.6252-02	.3730	2.522	563.7
304	191.25	.49000	671.00	.9370-01	.6180-01	.1010	.9430	.3867-02	.6314-02	.3750	2.528	564.0
304	191.25	.50000	672.00	.9010-01	.5990-01	.9690-01	.9430	.3746-02	.6060-02	.3700	2.551	562.3
304	191.25	.60000	673.00	.8500-01	.5540-01	.9190-01	.9430	.3468-02	.5746-02	.3300	2.092	566.0
304	191.25	.70000	674.00	.7610-01	.4890-01	.8250-01	.9430	.3058-02	.5158-02	.2830	1.905	568.4
304	191.25	.85000	676.00	.6550-01	.4280-01	.7080-01	.9430	.2674-02	.4428-02	.2540	1.593	565.9
304	191.25	.86000	677.00	.7060-01	.4580-01	.7630-01	.9430	.2863-02	.4774-02	.2700	1.706	566.9
304	191.25	.87000	678.00	.7440-01	.4810-01	.8050-01	.9430	.3009-02	.5036-02	.2820	1.798	567.4
304	191.25	.88000	679.00	.6740-01	.4350-01	.7300-01	.9430	.2719-02	.4566-02	.2530	1.634	567.9
304	191.25	.89000	680.00	.6580-01	.4240-01	.7130-01	.9430	.2652-02	.4459-02	.2470	1.616	568.0
304	191.25	.90000	681.00	.5260-01	.3420-01	.5690-01	.9430	.2138-02	.3559-02	.2020	1.347	566.6
304	191.25	.91000	682.00	.2750-01	.1820-01	.2960-01	.9430	.1139-02	.1851-02	.1120	.8080	563.0
304	191.25	.92600	683.00	.3370-01	.2190-01	.3640-01	.9430	.1368-02	.2277-02	.1290	.9360	566.6
304	191.25	.95000	684.00	.7910-01	.5210-01	.8530-01	.9430	.3258-02	.5334-02	.3150	2.258	564.2
304	197.00	.33000	685.00	.7740-01	.5130-01	.8330-01	.9430	.3211-02	.5211-02	.3150	2.101	562.9
304	197.00	.34000	686.00	.8290-01	.5490-01	.8930-01	.9430	.3430-02	.5587-02	.3350	2.231	563.4
304	197.00	.35000	687.00	.8250-01	.5480-01	.8880-01	.9430	.3427-02	.5552-02	.3370	2.249	562.6
304	197.00	.36000	688.00	.8090-01	.5360-01	.8700-01	.9430	.3354-02	.5443-02	.3290	2.194	562.9

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F16)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
304	197.00	.37000	689.00	.7960-01	.5310-01	.8560-01	.9430	.3323-02	.5351-02	.3300	2.204	561.6
304	197.00	.37500	690.00	.8900-01	.5910-01	.9580-01	.9430	.3698-02	.5993-02	.3640	2.433	562.6
304	197.00	.50000	691.00	.8480-01	.5600-01	.9130-01	.9430	.3500-02	.5712-02	.3400	2.269	563.7
304	197.00	.60000	692.00	.9120-01	.5920-01	.9730-01	.9430	.3701-02	.6087-02	.3560	2.273	564.9
304	197.00	.70000	693.00	.7620-01	.4960-01	.8240-01	.9430	.3102-02	.5153-02	.2940	1.972	566.4
304	197.00	.80000	694.00	.8630-01	.5660-01	.9320-01	.9430	.3541-02	.5827-02	.3400	2.117	565.0
304	197.00	.87000	695.00	.8270-01	.5380-01	.8940-01	.9430	.3366-02	.5594-02	.3180	2.010	566.4
304	197.00	.92600	696.00	.5300-01	.3470-01	.5720-01	.9430	.2169-02	.3580-02	.2070	1.503	565.4
304	209.80	.15000-01	697.00	.2094	.1342	.2273	.9430	.8393-02	.1421-01	.7720	5.244	569.0
305	209.80	.30000-01	698.00	.2934	.1873	.2456	.9672	.1171-01	.1535-01	1.069	7.192	569.4
305	209.80	.50000-01	699.00	.3520	.2204	.3056	.9627	.1378-01	.1910-01	1.217	7.640	572.3
305	209.80	.70000-01	700.00	.3922	.2201	.3518	.9573	.1376-01	.2199-01	1.036	6.872	585.4
305	209.80	.10000+00	701.00	.2368	.1500	.2339	.9511	.9378-02	.1462-01	.8450	5.325	570.6
305	209.80	.15000	702.00	.1404	.8910-01	.1492	.9449	.5568-02	.9327-02	.5030	3.556	570.4
305	209.80	.20000	703.00	.9960-01	.6650-01	.1071	.9430	.4159-02	.6694-02	.4130	2.734	561.3
305	209.80	.30000	704.00	.6820-01	.4590-01	.7310-01	.9430	.2870-02	.4571-02	.2910	2.045	559.5
305	209.80	.37500	706.00	.7350-01	.5030-01	.7860-01	.9430	.3144-02	.4912-02	.3290	2.248	556.1
305	209.80	.50000	707.00	.7370-01	.4920-01	.7930-01	.9430	.3074-02	.4956-02	.3050	2.071	561.5
305	209.80	.60000	708.00	.7870-01	.5240-01	.8460-01	.9430	.3277-02	.5289-02	.3240	2.053	561.7
305	209.80	.70000	709.00	.7380-01	.4820-01	.7980-01	.9430	.3015-02	.4986-02	.2870	1.814	565.4
305	209.80	.80000	710.00	.7630-01	.5000-01	.8240-01	.9430	.3122-02	.5152-02	.2990	1.843	565.1
305	209.80	.87000	711.00	.7620-01	.4900-01	.8260-01	.9430	.3066-02	.5161-02	.2840	1.778	567.9
305	209.80	.92600	712.00	.3520-01	.2290-01	.3800-01	.9430	.1433-02	.2377-02	.1360	.9780	565.9
305	217.70	.15000-01	713.00	.2068	.1372	.2227	.9430	.6575-02	.1392-01	.8410	5.749	562.6
305	217.70	.30000-01	714.00	.2954	.1886	.2472	.9672	.1179-01	.1545-01	1.077	7.246	569.3
305	217.70	.50000-01	715.00	.3771	.2366	.3274	.9628	.1479-01	.2047-01	1.312	8.449	572.0
305	217.70	.70000-01	716.00	.3257	.1832	.2935	.9574	.1158-01	.1835-01	.8830	5.914	584.4
305	217.70	.10000+00	717.00	.2216	.1404	.2188	.9511	.8778-02	.1368-01	.7910	5.073	570.5
305	217.70	.15000	718.00	.1499	.9570-01	.1588	.9449	.6043-02	.9928-02	.5620	4.072	567.7
305	217.70	.20000	719.00	.1125	.7580-01	.1206	.9430	.4737-02	.7541-02	.4800	3.213	559.4
305	217.70	.30000	720.00	.6560-01	.4420-01	.7040-01	.9430	.2765-02	.4401-02	.2800	1.991	559.4
305	217.70	.35000	721.00	.7720-01	.5270-01	.8260-01	.9430	.3293-02	.5163-02	.3430	2.362	556.7
305	217.70	.37500	722.00	.7770-01	.5310-01	.8310-01	.9430	.3321-02	.5197-02	.3470	2.390	556.3
305	217.70	.50000	723.00	.6910-01	.4670-01	.7410-01	.9430	.2917-02	.4633-02	.2970	2.036	559.0
305	217.70	.70000	725.00	.7740-01	.5100-01	.8350-01	.9430	.3187-02	.5220-02	.3080	1.942	564.0
305	217.70	.80000	726.00	.8570-01	.5660-01	.9240-01	.9430	.3536-02	.5773-02	.3440	2.141	563.5
305	217.70	.87000	727.00	.8220-01	.5350-01	.8880-01	.9430	.3347-02	.5550-02	.3170	2.010	565.8
305	217.70	.92600	728.00	.4680-01	.3070-01	.5050-01	.9430	.1918-02	.3156-02	.1840	1.327	564.7

DATE 03 JUN 76

AEDC V41A-A4A (IH-4!) AERO-HEATING TEST ON INTEGRATED VEHICLE

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = 5.000 BETA = -3.000 GRIT = 3.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
107	3.510	4.780	5.000	3.000	-31.00	56.90	.7350	681.0	196.6	6.341	2412.	.3137-03
108	3.510	4.839	5.000	3.000	-31.00	57.00	.7360	676.0	195.2	6.349	2403.	.3165-03
109	3.510	4.834	5.010	3.000	-31.00	56.90	.7350	676.0	195.2	6.342	2403.	.3161-03
282	3.510	4.817	4.980	3.000	-31.00	56.80	.7340	677.0	195.4	6.333	2404.	.3152-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
107	.1583-06	.5532-01	.9297-02
108	.1571-06	.5530-01	.9247-02
109	.1571-06	.5527-01	.9253-02
282	.1574-06	.5524-01	.9267-02

TEST DATA

RUN NUMBER	PHI	X/L	T/C NU	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
108	.00000	.30000-02	730.00	.4580	.2950	.3417	.9808	.1631-01	.1890-01	1.550	10.46	581.1
108	.00000	.10300-01	731.00	.2011	.1448	.2415	.9284	.8007-02	.1335-01	.9670	6.635	555.2
108	.00000	.15000-01	732.00	.1981	.1422	.2386	.9284	.7861-02	.1319-01	.9410	6.373	556.3
108	.00000	.20000-01	733.00	.3729	.2533	.2970	.9771	.1401-01	.1642-01	1.477	10.02	570.7
108	.00000	.25000-01	734.00	.6715	.3817	.4868	.9750	.2111-01	.2692-01	1.653	10.96	597.7
108	.00000	.30000-01	735.00	.7121	.4297	.5456	.9732	.2376-01	.3017-01	2.026	13.57	590.8
108	.00000	.40000-01	737.00	.5091	.3362	.4164	.9716	.1859-01	.2303-01	1.851	11.89	576.5
108	.00000	.45000-01	738.00	.5605	.3700	.4657	.9698	.2046-01	.2575-01	2.035	13.28	576.6
108	.00000	.60000-01	739.00	.6531	.3890	.5464	.9644	.2151-01	.3022-01	1.798	11.81	592.5
108	.00000	.70000-01	740.00	.7274	.4063	.6200	.9610	.2247-01	.3429-01	.720	11.33	599.
108	.00000	.80000-01	741.00	.4871	.3035	.4456	.9577	.1678-01	.2464-01	1.505	10.73	5[illegible]
108	.00000	.10000+00	742.00	.3434	.2323	.3380	.9517	.1285-01	.1869-01	1.342	8.856	57[illegible].3
108	.00000	.12500	743.00	.2635	.1754	.2771	.9451	.9697-02	.1533-01	.9800	7.025	575.0
108	.00000	.15000	744.00	.2290	.1573	.2531	.9395	.8698-02	.1399-01	.9390	6.461	568.1
108	.00000	.17500	745.00	.1522	.1070	.1742	.9351	.5915-02	.9631-02	.6730	5.019	562.3
108	.00000	.20000	746.00	.1243	.8920-01	.1465	.9317	.4931-02	.8101-02	.5820	4.142	558.0

(RV7F16)

(HN)(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
108	.00000	.21500	747.00	.1137	.8140-01	.1350	.9301	.4503-02	.7465-02	.5360	3.696	557.0
108	.00000	.23000	748.00	.9490-01	.6780-01	.1141	.9290	.3751-02	.6307-02	.4440	3.266	557.6
108	.00000	.24000	749.00	.7930-01	.5680-01	.9560-01	.9284	.3139-02	.5289-02	.3740	2.804	557.0
108	.00000	.25000	750.00	.4680-01	.3390-01	.5600-01	.9284	.1873-02	.3095-02	.2300	1.851	553.5
108	.00000	.30000	751.00	.7930-01	.5720-01	.9520-01	.9284	.3164-02	.5264-02	.3840	2.508	554.9
108	.00000	.35000	752.00	.8570-01	.6240-01	.1021	.9284	.3452-02	.5644-02	.4300	2.712	551.5
108	.00000	.40000	753.00	.8690-01	.6340-01	.1033	.9284	.3508-02	.5714-02	.4390	2.819	550.8
108	.00000	.50000	754.00	.7880-01	.5690-01	.9450-01	9284	.3144-02	.5228-02	.3810	2.486	554.7
108	.00000	.60000	755.00	.6120-01	.4450-01	.7300-01	.9284	.2462-02	.4039-02	.3050	1.949	552.2
108	.00000	.70000	756.00	.6490-01	.4680-01	.7780-01	.9284	.2585-02	.4305-02	.3130	2.058	555.0
108	.00000	.80000	757.00	.6950-01	.5010-01	.8330-01	9284	.2771-02	.4607-02	.3360	2.098	554.7
108	.00000	.90000	758.00	.4240-01	.3050-01	.5100-01	.9284	.1684-02	.2820-02	.2020	1.302	556.0
109	55.000	.22000	759.00	.9590-01	.6960-01	.1151	.9299	.3350-02	.6364-02	.4620	3.423	556.0
108	55.000	.25000	760.00	.5280-01	.3830-01	.6300-01	.9285	.2116-02	.3484-02	.2600	2.033	553.0
108	55.000	.27000	761.00	.6370-01	.4560-01	.7680-01	.9285	.2524-02	.4246-02	.3010	2.225	557.0
108	55.000	.30000	762.00	.8950-01	.6490-01	.1070	.9285	.3586-02	.5917-02	.4400	2.636	553.4
108	55.000	.32000	763.00	.8790-01	.6400-01	.1048	.9285	.3538-02	.5792-02	.4390	2.592	551.9
108	55.000	.34000	764.00	.8890-01	.6490-01	.1058	.9285	.3586-02	.5849-02	.4480	2.651	551.2
108	55.000	.36000	765.00	.8670-01	.6350-01	.1029	.9285	.3512-02	.5689-02	.4430	2.662	549.8
108	55.000	.38000	766.00	.8750-01	.6410-01	.1037	.9285	.3545-02	.5736-02	.4480	2.721	549.6
108	55.000	.40000	767.00	.8709-01	.6390-01	.1031	.9285	.3533-02	.5699-02	.4490	2.804	548.9
108	55.000	.43000	768.00	.8600-01	.6270-01	.1037	.9289	.3469-02	.5733-02	.4220	3.129	554.3
108	67.500	.23000	768.00	.4830-01	.3560-01	.5840-01	.9284	.1957-02	.3230-02	.2440	1.890	552.2
108	67.500	.25000	769.00	.6810-01	.4970-01	.8320-01	.9284	.2748-02	.4601-02	.3300	2.399	555.8
108	67.500	.27000	770.00	.5540-01	.4020-01	.6810-01	.9284	.2225-02	.3656-02	.2750	1.702	552.3
109	67.500	.29000	771.00	.8470-01	.6140-01	.1013	.9284	.3394-02	.5600-02	.4170	2.542	553.1
108	67.500	.30000	772.00	.7540-01	.5550-01	.9120-01	.9284	.3068-02	.5045-02	.3790	2.291	552.5
109	67.500	.31000	773.00	.7360-01	.5370-01	.8760-01	.9284	.2969-02	.4842-02	.3720	2.230	550.9
108	67.500	.32000	774.00	.7960-01	.5820-01	.9470-01	.9284	.3218-02	.5238-02	.4040	2.432	550.5
108	67.500	.32500	775.00	.7980-01	.5810-01	.9480-01	.9284	.3226-02	.5270-02	.4000	2.537	550.8
108	67.500	.33000	776.00	.8210-01	.6010-01	.9800-01	.9284	.3318-02	.5388-02	.4100	2.554	550.3
108	67.500	.33500	777.00	.8460-01	.6180-01	.1009	.9284	.3418-02	.5523-02	.4260	2.629	550.3
108	67.500	.34000	778.00	.8570-01	.6260-01	.1019	.9284	.3464-02	.5623-02	.4360	2.728	550.1
108	67.500	.34500	779.00	.8850-01	.6470-01	.1052	.9284	.3590-02	.5817-02	.4510	2.748	549.8
108	67.500	.35000	780.00	.8810-01	.6410-01	.9750-01	.9284	.3425-02	.5334-02	.4200	2.548	549.8
108	67.500	.35500	781.00	.8930-01	.6530-01	.9930-01	.9284	.3598-02	.5495-02	.4280	2.604	549.8
08	67.500	.36000	782.00	.8860-01	.6460-01	.9840-01	.9284	.3353-02	.5442-02	.4230	2.574	549.9
108	67.500	.36500	783.00	.7990-01	.5860-01	.8980-01	.9284	.3243-02	.5241-02	.4120	2.500	549.1
108	67.500	.37000	784.00	.8030-01	.5930-01	.8590-01	.9284	.3291-02	.5301-02	.4170	2.545	549.0
108	67.500	.37500	785.00	.8750-01	.6410-01	.1039	.9284	.3544-02	.5743-02	.4480	2.758	549.6
108	67.500	.37500	785.00	.8750-01	.6410-01	.1039	.9284	.3544-02	.5743-02	.4480	2.758	549.6
108	67.500	.38000	786.00	.7410-01	.5430-01	.8780-01	.9284	.3005-02	.4857-02	.3810	2.355	549.1
109	67.500	.38000	786.00	.7410-01	.5430-01	.8780-01	.9284	.3005-02	.4857-02	.3810	2.355	549.1
109	67.500	.39000	787.00	.8800-01	.6450-01	.1045	.9284	.3568-02	.5777-02	.4520	2.795	549.5
109	67.500	.40000	788.00	.9600-01	.7030-01	.1141	.9284	.3886-02	.6311-02	.4900	3.054	550.1
109	67.500	.50000	789.00	.7850-01	.5680-01	.9400-01	.9284	.3143-02	.5198-02	.3850	2.459	553.6

(RV7F16)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
109	67.500	.60000	790.00	.7090-01	.5160-01	.8450-01	.9284	.2855-02	.4673-02	.3560	2.328	551.6
109	67.500	.70000	791.00	.7900-01	.5710-01	.9460-01	.9284	.3159-02	.5234-02	.3860	2.715	553.8
109	67.500	.80000	792.00	.8270-01	.6020-01	.9870-01	.9284	.3330-02	.5459-02	.4170	2.591	551.9
109	67.500	.90000	793.00	.4660-01	.3330-01	.5630-01	.9284	.1842-02	.3112-02	.2190	1.402	557.4
109	78.000	.27000	794.00	.6760-01	.4860-01	.8150-01	.9282	.2686-02	.4506-02	.3230	2.291	555.9
109	78.000	.29000	795.00	.5890-01	.4390-01	.6940-01	.9279	.2431-02	.3844-02	.3240	1.999	547.2
109	78.000	.30000	796.00	.7650-01	.5550-01	.9170-01	.9282	.3068-02	.5066-02	.3780	2.281	553.1
109	78.000	.31000	797.00	.7470-01	.5430-01	.8930-01	.9282	.2999-02	.4934-02	.3710	2.243	552.4
109	78.000	.32000	798.00	.7460-01	.5430-01	.8910-01	.9282	.3000-02	.4926-02	.3730	2.240	552.0
109	78.000	.32500	799.00	.7670-01	.5590-01	.9160-01	.9282	.3088-02	.5065-02	.3840	2.316	551.8
109	78.000	.33000	800.00	.7820-01	.5700-01	.9340-01	.9282	.3151-02	.5160-02	.3930	2.370	551.5
109	78.000	.33500	801.00	.8150-01	.5930-01	.9730-01	.9282	.3279-02	.5380-02	.4070	2.457	551.9
109	78.000	.34000	802.00	.7790-01	.5690-01	.9290-01	.9285	.3144-02	.5134-02	.3940	2.376	550.9
109	78.000	.34500	803.00	.8090-01	.5900-01	.9640-01	.9282	.3263-02	.5328-02	.4090	2.473	550.9
109	78.000	.35000	804.00	.8090-01	.5910-01	.9650-01	.9282	.3266-02	.5333-02	.4090	2.475	550.9
109	78.000	.35500	805.00	.8220-01	.6010-01	.9790-01	.9282	.3323-02	.5413-02	.4180	2.529	550.4
109	78.000	.36000	806.00	.6850-01	.5030-01	.8140-01	.9282	.2778-02	.4498-02	.3530	2.141	549.2
109	78.000	.36500	807.00	.7860-01	.5740-01	.9370-01	.9282	.3175-02	.5178-02	.3980	2.424	550.7
109	78.000	.37000	808.00	.7880-01	.5760-01	.9390-01	.9282	.3182-02	.5188-02	.3990	2.437	550.6
109	78.000	.37500	809.00	.7230-01	.5280-01	.8620-01	.9282	.2920-02	.4762-02	.3660	2.235	550.7
109	78.000	.38000	810.00	.6830-01	.4990-01	.8130-01	.9282	.2757-02	.4493-02	.3460	2.125	550.5
109	78.000	.39000	811.00	.8660-01	.6470-01	.1055	.9282	.3578-02	.5832-02	.4490	2.764	550.6
109	78.000	.40000	812.00	.8200-01	.6000-01	.9760-01	.9282	.3314-02	.5392-02	.4170	2.568	550.2
282	90.000	.40000-01	985.00	.4618	.3040	.3893	.9679	.1679-01	.2150-01	1.664	10.65	578.0
282	90.000	.50000-01	986.00	.5120	.3371	.4458	.9643	.1862-01	.2462-01	1.845	11.74	578.0
282	90.000	.60000-01	987.00	.5239	.3173	.4591	.9608	.1753-01	.2536-01	1.504	9.685	591.2
282	90.000	.80000-01	989.00	.4498	.2817	.4273	.9544	.1556-01	.2360-01	1.409	9.790	586.4
282	90.000	.15000	991.00	.1809	.1223	.2058	.9374	.6754-02	.1137-01	.7050	5.113	572.6
109	90.000	.20000	813.00	.7930-01	.5750-01	.9490-01	.9284	.3179-02	.5244-02	.3910	2.834	553.1
109	90.000	.24000	814.00	.6600-01	.4790-01	.7930-01	.9280	.2645-02	.4381-02	.3250	2.620	553.3
109	90.000	.27000	816.00	.6640-01	.4790-01	.7990-01	.9280	.2648-02	.4417-02	.3220	2.278	554.6
109	90.000	.29000	817.00	.6040-01	.4400-01	.7230-01	.9280	.2432-02	.3996-02	.3020	1.874	551.8
109	90.000	.30000	818.00	.7280-01	.5290-01	.8720-01	.9280	.2923-02	.4822-02	.3610	2.201	552.6
109	90.000	.31000	819.00	.7410-01	.5400-01	.8870-01	.9280	.2982-02	.4901-02	.3710	2.241	551.9
109	90.000	.32000	820.00	.7600-01	.5540-01	.9080-01	.9280	.3061-02	.5017-02	.3820	2.304	551.3
109	90.000	.32500	821.00	.7500-01	.5470-01	.8960-01	.9280	.3026-02	.4952-02	.3780	2.277	551.0
109	90.000	.33000	822.00	.7830-01	.5730-01	.9340-01	.9280	.3166-02	.5159-02	.3990	2.406	550.2
109	90.000	.33500	823.00	.7350-01	.5380-01	.8750-01	.9280	.2972-02	.4837-02	.3750	2.271	549.9
109	90.000	.34000	824.00	.7990-01	.5850-01	.9510-01	.9280	.3233-02	.5258-02	.4080	2.459	549.8
109	90.000	.34500	825.00	.7800-01	.5710-01	.9290-01	.9280	.3156-02	.5135-02	.3980	2.405	549.9
109	90.000	.35000	826.00	.7660-01	.5610-01	.9120-01	.9280	.3101-02	.5043-02	.3920	2.365	549.8
109	90.000	.36000	828.00	.7580-01	.5550-01	.9020-01	.9280	.3066-02	.4988-02	.3870	2.331	549.8
109	90.000	.37000	830.00	.7180-01	.5270-01	.8540-01	.9280	.2910-02	.4719-02	.3690	2.237	549.2

(RV7F16)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
109	90.000	.37500	831.00	.7260-01	.5330-01	.8640-01	.9280	.2946-02	.4776-02	.3740	2.279	549.1
109	90.000	.38000	832.00	.7000-01	.5130-01	.8330-01	.9280	.2837-02	.4605-02	.3600	2.190	549.3
109	90.000	.39000	833.00	.7690-01	.5640-01	.9160-01	.9280	.3116-02	.5064-02	.3940	2.426	549.6
109	90.000	.40000	834.00	.7200-01	.5270-01	.8570-01	.9280	.2914-02	.4735-02	.3690	2.276	549.6
109	90.000	.50000	835.00	.7530-01	.5450-01	.9040-01	.9280	.3011-02	.4998-02	.3690	2.321	553.7
109	90.000	.60000	836.00	.7630-01	.5560-01	.9130-01	.9280	.3071-02	.5047-02	.3820	2.536	551.9
109	90.000	.70000	837.00	.6630-01	.4810-01	.7950-01	.9280	.2661-02	.4396-02	.3280	2.302	552.9
109	90.000	.80000	838.00	.6910-01	.5050-01	.8230-01	.9280	.2793-02	.4550-02	.3520	2.183	550.1
109	90.000	.90000	839.00	.4090-01	.2990-01	.4880-01	.9280	.1653-02	.2696-02	.2080	1.326	550.4
109	112.50	.23000	840.00	.6290-01	.4580-01	.7530-01	.9280	.2532-02	.4159-02	.3150	2.535	551.6
109	112.50	.25000	841.00	.3750-01	.2750-01	.4470-01	.9278	.1520-02	.2472-02	.1930	1.490	549.5
109	112.50	.27000	842.00	.3500-01	.2570-01	.4160-01	.9278	.1420-02	.2301-02	.1810	1.265	548.7
109	112.50	.30000	843.00	.6890-01	.5040-01	.8220-01	.9278	.2788-02	.4542-02	.3520	2.092	549.8
109	112.50	.33000	844.00	.7610-01	.5580-01	.9080-01	.9278	.3082-02	.5019-02	.3900	2.346	549.7
109	112.50	.35000	845.00	.6350-01	.4670-01	.7560-01	.9278	.2581-02	.4179-02	.3290	2.017	548.5
109	112.50	.37000	846.00	.6950-01	.5110-01	.8270-01	.9278	.2824-02	.4573-02	.3600	2.219	548.5
109	112.50	.40000	847.00	.6480-01	.4780-01	.7690-01	.9278	.2641-02	.4250-02	.3400	2.121	547.2
109	112.50	.45000	848.00	.6190-01	.4560-01	.7360-01	.9278	.2519-02	.4066-02	.3230	2.029	547.9
109	112.50	.50000	849.00	.6460-01	.4730-01	.7720-01	.9278	.2614-02	.4266-02	.3290	2.115	550.1
109	112.50	.55000	850.00	.4710-01	.3460-01	.5610-01	.9278	.1910-02	.3098-02	.2430	1.623	548.8
109	112.50	.60000	851.00	.5890-01	.4330-01	.7020-01	.9278	.2392-02	.3877-02	.3050	2.039	548.8
109	112.50	.65000	852.00	.5970-01	.4380-01	.7110-01	.9278	.2419-02	.3930-02	.3070	2.085	549.2
109	112.50	.90000	855.00	.4950-01	.3650-01	.5880-01	.9278	.2015-02	.3250-02	.2590	1.683	547.7
109	112.50	.90000	856.00	.3490-01	.2580-01	.4130-01	.9278	.1423-02	.2285-02	.1840	1.194	546.8
109	125.40	.84000	857.00	.4710-01	.3490-01	.5580-01	.9278	.1927-02	.3086-02	.2500	1.548	546.2
109	125.40	.85000	858.00	.4960-01	.3660-01	.5880-01	.9278	.2025-02	.3250-02	.2620	1.629	546.7
109	125.40	.86000	859.00	.5020-01	.3710-01	.5950-01	.9278	.2049-02	.3291-02	.2650	1.662	546.7
109	125.40	.87000	860.00	.4950-01	.3650-01	.5870-01	.9278	.2020-02	.3243-02	.2610	1.643	546.7
109	125.40	.88000	861.00	.5050-01	.3730-01	.5990-01	.9278	.2059-02	.3310-02	.2660	1.671	547.0
109	125.40	.89000	862.00	.5180-01	.3830-01	.6140-01	.9278	.2115-02	.3394-02	.2740	1.732	546.6
109	125.40	.90000	863.00	.4170-01	.3100-01	.4940-01	.9278	.1712-02	.2728-02	.2240	1.427	545.1
109	125.40	.91000	864.00	.2630-01	.1970-01	.3090-01	.9278	.1088-02	.1705-02	.1470	1.070	541.3
109	125.40	.92000	865.00	.3060-01	.2260-01	.3630-01	.9278	.1250-02	.2007-02	.1620	1.173	546.7
109	129.30	.87000	866.00	.4300-01	.3190-01	.5090-01	.9278	.1763-02	.2813-02	.2310	1.451	545.3
109	129.30	.91000	867.00	.4560-01	.3400-01	.5430-01	.9278	.1877-02	.3000-02	.2450	1.531	545.7
109	129.30	.92000	868.00	.4490-01	.3320-01	.5300-01	.9278	.1835-02	.2927-02	.2400	1.502	545.3
109	129.30	.83000	869.00	.4180-01	.3100-01	.4940-01	.9278	.1713-02	.2730-02	.2250	1.408	545.1
109	135.00	.40000-01	870.00	.4410	.2819	.3037	.9604	.1630-01	.2209-01	1.664	10.55	574.1
109	135.00	.50000-01	871.00	.4962	.3313	.4639	.9570	.1831-01	.2564-01	1.863	11.74	574.4
109	135.00	.60000-01	872.00	.4774	.3021	.4575	.9538	.1670-01	.2528-01	1.537	10.02	584.1
109	135.00	.70000-01	873.00	.5261	.3102	.5210	.9507	.1714-01	.2879-01	1.412	9.386	593.8
109	135.00	.10000+00	875.00	.2724	.1660	.2913	.9428	.1039-01	.1610-01	1.133	7.363	567.0
109	135.00	.15000	876.00	.1562	.1096	.1819	.9334	.6059-02	.1005-01	.6870	4.987	562.8

(RV7F16)

!IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
109	135.00	.20000	877.00	.8470-01	.6160-01	.1010	.9286	.3402-02	.5581-02	.4210	2.829	552.5
109	135.00	.35000	878.00	.6370-01	.4700-01	.7570-01	.9278	.2598-02	.4182-02	.3350	2.081	547.2
109	135.00	.40000	879.00	.5810-01	.4280-01	.6900-01	.9278	.2367-02	.3812-02	.3050	1.932	547.3
109	135.00	.50000	880.00	.4490-01	.3300-01	.5350-01	.9278	.1826-02	.2954-02	.2330	1.601	548.3
109	135.00	.55000	881.00	.3990-01	.2950-01	.4730-01	.9278	.1630-02	.2612-02	.2120	1.410	546.3
109	135.00	.60000	882.00	.5180-01	.3820-01	.6150-01	.9278	.2110-02	.3399-02	.2720	1.825	547.4
282	135.00	.65000	883.00	.5590-01	.4020-01	.6760-01	.9278	.2221-02	.3732-02	.2680	1.822	556.1
282	135.00	.70000	884.00	.5680-01	.4060-01	.6890-01	.9278	.2243-02	.3808-02	.2670	1.884	558.0
282	135.00	.75000	885.00	.5070-01	.3630-01	.6150-01	.9278	.2007-02	.3397-02	.2400	1 502	557.4
282	135.00	.80000	886.00	.5640-01	.4070-01	.6800-01	.9278	.2248-02	.3758-02	.2730	1.711	555.2
282	135.00	.84000	887.00	.7590-01	.5980-01	.9460-01	.9130	.2678-02	.4234-02	.0000	.0000	244.7
282	135.00	.85000	888.00	.4500-01	.3250-01	.5430-01	.9278	.1796-02	.2999-02	.2190	1.382	555.1
282	135.00	.87000	890.00	.4820-01	.3480-01	.5820-01	.9278	.1920-02	.3216-02	.2330	1.474	555.7
282	135.00	.88000	891.00	.4830-01	.3460-01	.5860-01	.9278	.1909-02	.3235-02	.2280	1.447	557.8
282	135.00	.89000	892.00	.4390-01	.3130-01	.5330-01	.9278	.1732-02	.2944-02	.2060	1.329	558.3
282	135.00	.91000	894.00	.1910-01	.1370-01	.2310-01	.9278	.7572-03	.1277-02	.9100-01	.6600	556.9
282	135.00	.92600	895.00	.2700-01	.1920-01	.3290-01	.9278	.1063-02	.1819-02	.1250	.9040	559.4
282	135.00	.95000	896.00	.4430-01	.3150-01	.5410-01	.9278	.1738-02	.2991-02	.2030	1.456	560.3
282	142.30	.42000	897.00	.5520-01	.4050-01	.6590-01	.9278	.2237-02	.3640-02	.2840	1.021	550.2
282	142.30	.43500	898.00	.5150-01	.3790-01	.6130-01	.9278	.2093-02	.3385-02	.2680	1.673	549.0
282	142.30	.45000	899.00	.5170-01	.3800-01	.6170-01	.9278	.2097-02	.3406-02	.2670	1.743	549.8
282	142.30	.50000	900.00	.4890-01	.3550-01	.5850-01	.9278	.1963-02	.3233-02	.2440	1.622	552.6
282	142.30	.60000	901.00	.7120-01	.5210-01	.8510-01	.9278	.2879-02	.4703-02	.3630	2.404	551.0
282	142.30	.70000	902.00	.4880-01	.3530-01	.5880-01	.9278	.1958-02	.3247-02	.2390	1.623	554.6
282	142.30	.80000	903.00	.5420-01	.3920-01	.6520-01	.9278	.2167-02	.3600-02	.2660	1.685	554.2
282	142.30	.87000	904.00	.5090-01	.3660-01	.6160-01	.9278	.2022-02	.3401-02	.2440	1.532	556.5
282	154.98	.42000	905.00	.5470-01	.4010-01	.6510-01	.9278	.2216-02	.3698-02	.2820	1.816	549.8
282	154.98	.43500	906.00	.4990-01	.3660-01	.5950-01	.9278	.2023-02	.3287-02	.2570	1.665	549.9
282	154.98	.45000	907.00	.5370-01	.3940-01	.6410-01	.9278	.2178-02	.3539-02	.2770	1.802	550.0
282	154.98	.50000	908.00	.4320-01	.3140-01	.5180-01	.9278	.1737-02	.2862-02	.2160	1.541	552.7
282	154.98	.93500	913.00	.3310-01	.2350-01	.4030-01	.9278	.1300-02	.2228-02	.1530	1.103	559.6
282	154.98	.94500	914.00	.4640-01	.3280-01	.5680-01	.9278	.1814-02	.3138-02	.2100	1.502	561.1
282	157.50	.70000-01	918.00	.3908	.2384	.4018	.9479	.1317-01	.2219-01	1.143	7.778	590.2
282	157.50	.80000-01	919.00	.3265	.2127	.3444	.9452	.1175-01	.1902-01	1.141	7.657	579.9
282	157.50	.10000+00	920.00	.2167	.1503	.2369	.9404	.8302-02	.1308-01	.9170	6.066	566.6
282	157.50	.20000	922.00	.7150-01	.5210-01	.8550-01	.9281	.2876-02	.4724-02	.3580	2.377	552.6
282	157.50	.42000	923.00	.4760-01	.3500-01	.5670-01	.9278	.1931-02	.3129-02	.2460	1.605	549.4
282	157.50	.43500	924.00	.4470-01	.3290-01	.5310-01	.9278	.1820-02	.2933-02	.2340	1.532	548.2
282	157.50	.45000	925.00	.4420-01	.3250-01	.5250-01	.9278	.1797-02	.2900-02	.2310	1.523	548.5
282	157.50	.85000	926.00	.4290-01	.3110-01	.5160-01	.9278	.1716-02	.2848-02	.2110	1.360	554.0
282	157.50	.86000	927.00	.3870-01	.2790-01	.4660-01	.9278	.1543-02	.2576-02	.1880	1.215	555.:
282	157.50	.87000	928.00	.4320-01	.3120-01	.5210-01	.9278	.1724-02	.2876-02	.2100	1.364	555.0
282	157.50	.88000	929.00	.4020-01	.2900-01	.4850-01	.9278	.1602-02	.2680-02	.1950	1.269	555.5

(RV7F18)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
282	157.50	.89000	930.00	.4440-01	.3190-01	.5390-01	.9278	.1760-02	.2978-02	.2100	1.377	557.5
282	157.50	.90000	931.00	.3260-01	.2350-01	.3950-01	.9278	.1296-02	.2181-02	.1560	1.048	556.5
282	157.50	.91000	932.00	.1990-01	.1430-01	.2410-01	.9278	.7899-03	.1331-02	.9500-01	.6920	556.8
282	157.50	.92600	933.00	.2690-01	.1930-01	.3260-01	.9278	.1063-02	.1798-02	.1270	.9230	557.4
282	163.12	.41500	934.00	.5380-01	.3980-01	.6370-01	.9278	.2200-02	.3521-02	.2870	1.859	546.7
282	163.12	.42000	935.00	.5490-01	.4050-01	.6520-01	.9278	.2237-02	.3600-02	.2890	1.889	547.9
282	163.12	.43000	937.00	.4560-01	.3360-01	.5420-01	.9278	.1858-02	.2996-02	.2390	1.568	548.3
282	163.12	.44000	938.00	.4650-01	.3420-01	.5530-01	.9278	.1890-02	.3053-02	.2430	1.586	548.7
282	163.12	.44500	939.00	.4260-01	.3140-01	.5070-01	.9278	.1732-02	.2799-02	.2220	1.473	548.8
282	163.12	.45000	940.00	.4380-01	.3220-01	.5210-01	.9278	.1780-02	.2876-02	.2280	1.515	548.7
282	163.12	.50000	941.00	.4270-01	.3120-01	.5110-01	.9278	.1724-02	.2822-02	.2160	1.465	551.4
282	163.12	.70000	943.00	.4520-01	.3280-01	.5430-01	.9278	.1812-02	.3000-02	.2240	1.530	553.6
282	163.12	.80000	944.00	.4420-01	.3200-01	.5320-01	.9278	.1770-02	.2937-02	.2180	1.417	553.9
282	168.00	.35000	945.00	.4930-01	.3640-01	.5840-01	.9278	.2013-02	.3226-02	.2620	1.657	547.1
282	168.00	.36000	946.00	.4650-01	.3450-01	.5500-01	.9278	.1905-02	.3037-02	.2500	1.588	545.9
282	168.00	.37500	948.00	.4470-01	.3310-01	.5300-01	.9278	.1828-02	.2929-02	.2380	1.514	547.0
282	168.00	.38500	950.00	.3760-01	.2800-01	.4450-01	.9278	.1545-02	.2456-02	.2040	1.314	545.2
282	168.00	.39000	951.00	.4560-01	.3370-01	.5400-01	.9278	.1863-02	.2981-02	.2430	1.575	546.7
282	168.00	.39500	952.00	.4590-01	.3400-01	.5440-01	.9278	.1877-02	.3006-02	.2440	1.563	546.8
282	168.00	.40000	953.00	.4560-01	.3370-01	.5400-01	.9278	.1860-02	.2985-02	.2410	1.568	547.4
282	168.00	.40500	954.00	.4520-01	.3340-01	.5360-01	.9278	.1843-02	.2963-02	.2380	1.554	547.7
282	168.00	.41000	955.00	.4660-01	.3440-01	.5540-01	.9278	.1901-02	.3058-02	.2460	1.603	547.8
282	168.00	.41500	956.00	.4710-01	.3480-01	.5590-01	.9278	.1920-02	.3088-02	.2480	1.623	547.8
282	168.00	.42000	957.00	.4860-01	.3590-01	.5760-01	.9278	.1983-02	.3182-02	.2570	1.687	547.3
282	168.00	.42500	958.00	.5130-01	.3790-01	.6080-01	.9278	.2092-02	.3360-02	.2710	1.778	547.5
282	168.00	.43000	959.00	.5060-01	.3740-01	.6000-01	.9278	.2064-02	.3313-02	.2680	1.751	547.3
282	168.00	.44000	960.00	.5270-01	.3890-01	.6250-01	.9278	.2151-02	.3452-02	.2790	1.831	547.3
282	168.00	.44500	961.00	.4440-01	.3270-01	.5280-01	.9278	.1808-02	.2919-02	.2320	1.522	548.6
282	168.00	.45500	963.00	.4210-01	.3100-01	.5010-01	.9278	.1714-02	.2767-02	.2200	1.452	548.6
282	168.00	.46000	964.00	.4440-01	.3260-01	.5280-01	.9278	.1801-02	.2918-02	.2300	1.525	549.3
282	168.00	.47000	965.00	.4490-01	.3300-01	.5340-01	.9278	.1821-02	.2952-02	.2320	1.545	549.5
282	168.00	.48000	966.00	.4390-01	.3210-01	.5230-01	.9278	.1774-02	.2888-02	.2250	1.510	550.2
282	168.00	.49000	967.00	.4180-01	.3080-01	.4970-01	.9278	.1700-02	.2746-02	.2180	1.464	548.7
282	168.00	.85000	968.00	.4160-01	.3030-01	.5000-01	.9278	.1671-02	.2761-02	.2070	1.338	553.2
282	168.00	.86000	969.00	.3950-01	.2860-01	.4750-01	.9278	.1580-02	.2625-02	.1940	1.257	554.2
282	168.00	.87000	970.00	.3780-01	.2730-01	.4550-01	.9278	.1509-02	.2515-02	.1840	1.198	554.8
282	169.00	.88000	971.00	.3770-01	.2710-01	.4560-01	.9278	.1498-02	.2519-02	.1810	1.177	556.4
282	168.00	.89000	972.00	.3990-01	.2860-01	.4850-01	.9278	.1580-02	.2677-02	.1880	1.245	557.7
282	168.00	.90000	973.00	.2900-01	.2090-01	.3510-01	.9278	.1153-02	.1941-02	.1390	.9390	556.7
282	168.00	.91000	974.00	.1520-01	.1100-01	.1840-01	.9278	.6062-03	.1017-02	.7300-01	.5330	555.9
282	168.00	.92600	975.00	.2040-01	.1460-01	.2490-01	.9278	.8055-03	.1374-02	.9500-01	.6850	558.9
282	168.00	.95000	976.00	.4140-01	.2930-01	.5060-01	.9278	.1621-02	.2797-02	.1880	1.346	560.0
282	180.00	.20000-01	982.00	.1322	.9630-01	.1231	.9599	.5319-02	.6798-02	.6630	4.598	552.3

(RV7F16)

1H41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
282	180.00	.25000-01	983.00	.2628	.1836	.2458	.9580	.1014-01	.1358-01	139	7.801	564.7
282	180.00	.30000-01	984.00	.4058	.2671	.3806	.9564	.1475-01	.2102-01	.461	9.878	578.0
107	180.00	.40000-01	600.00	.3763	.2553	.3549	.9549	.1412-01	.1963-01	1.545	9.810	571.7
107	180.00	.50000-01	601.00	.4109	.2816	.4048	.9517	.1558-01	.2239-01	1.686	10.73	572.9
107	180.00	.60000-01	602.00	.4213	.2744	.4275	.9486	.1518-01	.2365-01	1.483	9.699	583.4
107	180.00	.70000-01	603.00	.4646	.2860	.4902	.9458	.1582-01	.2712-01	1.402	9.352	592.5
107	180.00	.80000-01	604.00	.3437	.2318	.3677	.9432	.1282-01	.2034-01	1.342	8.598	576.5
107	180.00	.10000+00	605.00	.1938	.1366	.2141	.9387	.7557-02	.1184-01	.8720	6.200	565.7
107	180.00	.15000	606.00	.1130	.8110-01	.1330	.9309	.4485-02	.7356-02	.5410	3.904	560.6
107	180.00	.20000	607.00	.6350-01	.4690-01	.7540-01	.9279	.2593-02	.4172-02	.3360	2.189	551.4
107	180.00	.21000	608.00	.5500-01	.4070-01	.6510-01	.9278	.2254-02	.3603-02	.2960	2.041	549.8
107	180.00	.22000	609.00	.4440-01	.3280-01	.5260-01	.9278	.1817-02	.2909-02	.2380	1.769	550.1
107	180.00	.30000	610.00	.4420-01	.3270-01	.5230-01	.9278	.1811-02	.2893-02	.2380	1.627	549.7
107	180.00	.35000	611.00	.4360-01	.3250-01	.5130-01	.9278	.1799-02	.2837-02	.2420	1.611	546.7
107	180.00	.36000	612.00	.4280-01	.3200-01	.5030-01	.9278	.1769-02	.2785-02	.2380	1.602	546.4
107	180.00	.37000	613.00	.4290-01	.3210-01	.5040-01	.9278	.1773-02	.2791-02	.2390	1.608	546.2
107	180.00	.37500	614.00	.4580-01	.3420-01	.5390-01	.9278	.1894-02	.2981-02	.2550	1.716	546.3
107	180.00	.38000	615.00	.4120-01	.3080-01	.4850-01	.9278	.1704-02	.2685-02	.2290	1.542	546.5
107	180.00	.38500	616.00	.4210-01	.3150-01	.4950-01	.9278	.1740-02	.2737-02	.2350	1.580	546.1
107	180.00	.39000	617.00	.4290-01	.3210-01	.5040-01	.9278	.1778-02	.2790-02	.2410	1.615	545.6
107	180.00	.39500	618.00	.4530-01	.3390-01	.5330-01	.9278	.1877-02	.2946-02	.2540	1.716	545.6
107	180.00	.40000	619.00	.4480-01	.3350-01	.5260-01	.9278	.1856-02	.2912-02	.2510	1.686	545.6
107	180.00	.40500	620.00	.4510-01	.3370-01	.5300-01	.9278	.1867-02	.2930-02	.2530	1.702	545.5
107	180.00	.41000	621.00	.4710-01	.3530-01	.5530-01	.9278	.1950-02	.3061-02	.2640	1.778	545.6
107	180.00	.41500	622.00	.4650-01	.3480-01	.5460-01	.9278	.1926-02	.3021-02	.2610	1.753	545.4
107	180.00	.42500	624.00	.4710-01	.3510-01	.5550-01	.9278	.1940-02	.3072-02	.2590	1.735	547.6
107	180.00	.43000	625.00	.4560-01	.3400-01	.5370-01	.9278	.1879-02	.2972-02	.2510	1.689	547.3
107	180.00	.44000	626.00	.4540-01	.3380-01	.5350-01	.9278	.1871-02	.2960-02	.2500	1.681	547.5
107	180.00	.44500	627.00	.4460-01	.3330-01	.5260-01	.9278	.1840-02	.2912-02	.2460	1.668	547.5
107	180.00	.45000	628.00	.4150-01	.3090-01	.4890-01	.9278	.1708-02	.2706-02	.2280	1.543	547.8
107	180.00	.45500	629.00	.4180-01	.3110-01	.4920-01	.9278	.1722-02	.2724-02	.2300	1.585	547.4
107	180.00	.46000	630.00	.4240-01	.3160-01	.5000-01	.9278	.1748-02	.2764-02	.2340	1.572	547.3
107	180.00	.47000	631.00	.4100-01	.3050-01	.4840-01	.9278	.1688-02	.2680-02	.2240	1.507	548.2
107	180.00	.49000	633.00	.4010-01	.2980-01	.4740-01	.9278	.1650-02	.2622-02	.2190	1.492	548.5
107	180.00	.50000	634.00	.3490-01	.2600-01	.4120-01	.9278	.1436-02	.2277-02	.1910	1.336	548.0
107	180.00	.55000	635.00	.3400-01	.2530-01	.4010-01	.9278	.1399-02	.2219-02	.1830	1.237	548.0
107	180.00	.60000	636.00	.3530-01	.2630-01	.4160-01	.9278	.1454-02	.2304-02	.1940	1.249	547.8
107	180.00	.65000	637.00	.4810-01	.3580-01	.5660-01	.9278	.1982-02	.3134-02	.2650	1.715	547.3
107	180.00	.70000	638.00	.3790-01	.2810-01	.4480-01	.9278	.1555-02	.2477-02	.2050	1.404	549.1
107	180.00	.75000	639.00	.1980-01	.1480-01	.2340-01	.9278	.8181-03	.1293-02	.1100	.7070	547.1
107	180.00	.80000	640.00	.4010-01	.3000-01	.4720-01	.9278	.1661-02	.2611-02	.2240	1.407	546.0
107	180.00	.85000	641.00	.4300-01	.3210-01	.5070-01	.9278	.1777-02	.2805-02	.2380	1.506	547.0
107	180.00	.86000	642.00	.4010-01	.2990-01	.4730-01	.9278	.1655-02	.2616-02	.2220	1.420	547.2

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RVSF16)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
107	180.00	.87000	643.00	.4220-01	.3150-01	.4980-01	.9278	.1742-02	.2754-02	.2330	1.503	547.3
107	180.00	.88000	644.00	.4430-01	.3300-01	.5220-01	.9278	.1824-02	.2887-02	.2440	1.584	547.6
107	180.00	.89000	645.00	.3660-01	.2720-01	.4320-01	.9278	.1504-02	.2391-02	.1990	1.310	548.6
107	180.00	.90000	646.00	.2640-01	.1970-01	.3100-01	.9278	.1091-02	.1715-02	.1470	.9910	546.0
107	180.00	.92600	648.00	.1930-01	.1440-01	.2280-01	.9278	.7959-03	.1260-02	.1060	.7750	547.6
107	180.00	.95000	649.00	.4.30-01	.3080-01	.4990-01	.9278	.1701-02	.2760-02	.2180	1.571	552.9
107	191.25	.35000	650.00	.4610-01	.3430-01	.5440-01	.9278	.1900-02	.3010-02	.2530	1.703	547.7
107	191.25	.36000	651.00	.4570-01	.3410-01	.5390-01	.9278	.1884-02	.2983-02	.2510	1.694	547.7
107	191.25	.37000	652.00	.4770-01	.3560-01	.5620-01	.9278	.1967-02	.3111-02	.2630	1.767	547.4
107	191.25	.37500	653.00	.4340-01	.3240-01	.5120-01	.9278	.1790-02	.2834-02	.2390	1.610	547.7
107	191.25	.38000	654.00	.4470-01	.3330-01	.5270-01	.9278	.1843-02	.2913-02	.2470	1.664	547.2
107	191.25	.38500	655.00	.4410-01	.3280-01	.5200-01	.9278	.1817-02	.2874-02	.2430	1.637	547.4
107	191.25	.39000	656.00	.4310-01	.3210-01	.5080-01	.9278	.1775-02	.2808-02	.2370	1.600	547.4
107	191.25	.39500	657.00	.5520-01	.4120-01	.6510-01	.9278	.2278-02	.3599-02	.3050	2.058	547.1
107	191.25	.40000	658.00	.5280-01	.3930-01	.6230-01	.9278	.2176-02	.3446-02	.2900	1.961	547.7
107	191.25	.40500	659.00	.4980-01	.3710-01	.5880-01	.9278	.2054-02	.3252-02	.2740	1.853	547.6
107	191.25	.41000	660.00	.4340-01	.3240-01	.5120-01	.9278	.1790-02	.2833-02	.2390	1.611	547.6
107	191.25	.41500	661.00	.4270-01	.3180-01	.5030-01	.9278	.1760-02	.2782-02	.2360	1.584	547.2
107	191.25	.42000	662.00	.4440-01	.3300-01	.5240-01	.9278	.1828-02	.2900-02	.2430	1.638	548.1
107	191.25	.42500	663.00	.4440-01	.3310-01	.5240-01	.9278	.1831-02	.2900-02	.2440	1.652	547.7
107	191.25	.43000	664.00	.4380-01	.3260-01	.5170-01	.9278	.1804-02	.2861-02	.2400	1.638	548.0
107	191.25	.44000	665.00	.4380-01	.3260-01	.5170-01	.9278	.1805-02	.2862-02	.2400	1.629	548.0
107	191.25	45000	666.00	.4500-01	.3350-01	.5310-01	.9278	.1854-02	.2939-02	.2470	1.675	547.9
107	191.25	.45500	667.00	.4410-01	.3290-01	.5200-01	.9278	.1817-02	.2879-02	.2420	1.643	547.7
107	191.25	.46000	668.00	.4510-01	.3360-01	.5310-01	.9278	.1858-02	.2938-02	.2480	1.690	547.4
107	191.25	.47000	669.00	.4550-01	.3390-01	.5370-01	.9278	.1878-02	.2969-02	.2510	1.713	547.3
107	191.25	.48000	670.00	.4780-01	.3560-01	.5640-01	.9278	.1968-02	.3121-02	.2620	1.786	548.0
107	191.25	.49000	671.00	.4540-01	.3370-01	.5370-01	.9278	.1866-02	.2971-02	.2470	1.676	548.9
107	191.25	.50000	672.00	.4340-01	.3230-01	.5120-01	.9278	.1788-02	.2833-02	.2380	1.655	547.9
107	191.25	.60000	673.00	.4420-01	.3280-01	.5220-01	.9278	.1816-02	.2885-02	.2410	1.542	548.5
107	191.25	.70000	674.00	.4170-01	.3080-01	.4960-01	.9278	.1704-02	.2741-02	.2210	1.504	551.1
107	191.25	.85000	676.00	.4000-01	.2980-01	.4720-01	.9278	.1647-02	.2613-02	.2190	1.383	548.1
107	191.25	.86000	677.00	.3990-01	.2960-01	.4720-01	.9278	.1636-02	.2609-02	.2160	1.378	549.2
107	191.25	.87000	678.00	.3750-01	.2770-01	.4440-01	.9278	.1533-02	.2455-02	.2010	1.293	550.1
107	191.25	.88000	679.00	.3520-01	.2600-01	.4180-01	.9278	.1438-02	.2310-02	.1870	1.220	550.8
107	19..25	.89000	680.00	.3160-01	.2330-01	.3750-01	.9278	.1287-02	.2075-02	.1670	1.101	551.6
107	191.25	.90000	681.00	.2300-01	.1700-01	.2730-01	.9278	.9417-03	.1512-02	.1230	.8270	550.7
107	191.25	.91000	682.00	.4100-02	.3000-02	.4800-02	.9278	.1679-03	.2656-03	.2200-01	.1640	547.5
107	191.25	.92600	683.00	.9000-02	.6600-02	.1070-01	.9278	.3667-03	.5921-03	.4700-01	.3460	552.0
107	191.25	.95000	684.00	.4230-01	.3100-01	.5040-01	.9278	.1717-02	.2789-02	.2200	1.581	553.2
107	197.00	.33000	685.00	.4380-01	.3250-01	.5170-01	.9278	.1800-02	.2859-02	.2390	1.604	548.4
107	197.00	.34000	686.00	.4150-01	.3090-01	.4900-01	.9278	.1707-02	.2712-02	.2270	1.521	548.4
107	197.00	.35000	687.00	.4310-01	.3210-01	.5080-01	.9278	.1775-02	.2812-02	.2370	1.591	547.7

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F16)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PH.	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
107	197.00	.36000	688.00	.4760-01	.3400-01	.5370-01	.9278	.1879-02	.2972-02	.2510	1.689	547.4
107	197.00	.37000	689.00	.4590-01	.3420-01	.5420-01	.9278	.1894-02	.2996-02	.2530	1.701	547.5
107	197.00	.37500	690.00	.4700-01	.3510-01	.5540-01	.9278	.1943-02	.3064-02	.2610	1.760	546.7
107	197.00	.50000	691.00	.4090-01	.3040-01	.4840-01	.9278	.1681-02	.2578-02	.2220	1.490	549.1
107	197.00	.60000	692.00	.3920-01	.2920-01	.4630-01	.9278	.1615-02	.2561-02	.2150	1.387	547.9
107	197.00	.70000	693.00	.3780-01	.2800-01	.4480-01	.9278	.1548-02	.2476-02	.2030	1.375	550.3
107	197.00	.80000	694.00	.3650-01	.2720-01	.4310-01	.9278	.1507-02	.2382-02	.2020	1.269	547.2
107	197.00	.87000	695.00	.3960-01	2930-01	.4690-01	.9278	.1619-02	.2595-02	.2120	1.349	550.2
107	197.00	.92600	696.00	.1290-01	.9500-02	.1530-01	.9278	.5278-03	.8497-03	.6900-01	.5010	551.1
107	209.80	.15000-01	697.00	.1361	.9870-01	.1636	.9278	.5459-02	.9049-02	.6770	4.622	557.2
108	209.80	.30000-01	698.00	.3761	.2565	.3590	.9551	.1418-01	.1985-01	1.567	10.13	569.8
108	209.80	.50000-01	699.00	.3942	.2731	.3924	.9505	.1510-01	.2170-01	1.662	10.46	566.0
108	209.80	.70000-01	700.00	.4679	.2947	.4985	.9448	.1629-01	.2757-01	1.488	9.872	584.7
108	209.80	.10000+00	701.00	.2053	.1456	.2281	.9378	.8045-02	.1261-01	.9350	5.918	559.9
108	209.80	.15000	702.00	.1026	.7420-01	.1208	.9305	.4101-02	.6677-02	.5000	3.562	554.2
108	209.80	.20000	703.00	.5780-01	.4270-01	.6860-01	.9278	.2361-02	.3795-02	.3050	2.031	546.9
108	209.80	.30000	704.00	.3920-01	.2890-01	.4650-01	.9278	.1598-02	.2571-02	.2060	1.461	547.0
108	209.80	.35000	705.00	.4110-01	.3050-01	.4860-01	.9278	.1685-02	.2689-02	.2200	1.510	545.3
108	209.80	.37500	706.00	.3780-01	.2810-01	.4470-01	.9278	.1554-02	.2469-02	.2050	1.407	544.4
108	209.80	.50000	707.00	.3360-01	.2470-01	.4000-01	.9278	.1368-02	.2210-02	.1750	1.199	548.0
108	209.80	.60000	708.00	.3270-01	.2420-01	.3870-01	.9278	.1340-02	.2142-02	.1750	1.115	545.7
108	209.80	.70000	709.00	.3230-01	.2370-01	.3840-01	.9278	.1311-02	.2124-02	.1670	1.065	548.6
108	209.80	.80000	710.00	.3980-01	.2940-01	.4730-01	.9278	.1624-02	.2617-02	.2090	1.302	547.4
108	209.80	.87000	711.00	.3590-01	.2630-01	.4290-01	.9278	.1454-02	.2373-02	.1830	1.157	550.0
108	209.80	.30000-01	714.00	.3584	.2452	.3420	.9552	.1356-01	.1891-01	1.452	9.770	569.0
108	217.70	.50000-01	715.00	.3705	.2582	.3687	.9506	.1428-01	.2039-01	1.592	10.30	564.5
108	217.70	.70000-01	716.00	.4427	.2793	.4713	.9448	.1544-01	.2606-01	1.414	9.473	584.5
108	217.70	.10000+00	717.00	.1955	.1400	.2163	.9379	.7742-02	.1196-01	.9220	5.946	557.0
108	217.70	.15000	718.00	.1012	.7350-01	.1187	.9305	.4065-02	.6563-02	.5020	3.664	552.6
108	217.70	.20000	719.00	.6280-01	.4670-01	.7420-01	.9278	.2583-02	.4104-02	.3400	2.295	544.4
108	217.70	.30000	720.00	.4090-01	.3020-01	.4850-01	.9278	.1668-02	.2682-02	.2160	1.542	546.9
108	217.70	.35000	721.00	.4250-01	.3150-01	.5020-01	.9278	.1743-02	.2779-02	.2260	1.584	545.1
108	217.70	.37500	722.00	.4160-01	.3090-01	.4920-01	.9278	.1707-02	.2718-02	.2200	1.554	544.9
108	217.70	.50000	723.00	.3600-01	.2660-01	.4280-01	.9278	.1459-02	.2365-02	.1890	1.308	547.2
108	217.70	.60000	724.00	.3890-01	.2880-01	.4600-01	.9278	.1590-02	.2545-02	.2070	1.423	546.0
108	217.70	.70000	725.00	.3430-01	.2520-01	.4080-01	.9278	.1396-02	.2256-02	.1790	1.134	548.1
108	217.70	.80000	726.00	.3990-01	.2940-01	.4740-01	.9278	.1627-02	.2621-02	.2090	1.315	547.4
108	217.70	.87000	727.00	.4320-01	.3170-01	.5160-01	.9278	.1753-02	.2853-02	.2220	1.417	549.5
108	217.70	.92600	728.00	.1030-01	.7600-02	.1230-01	.9278	.4182-03	.6776-03	.5300-01	.3870	548.6

ORIGINAL PAGE IS
OF POOR QUALITY

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = 5.000 BETA = -3.000 GRIT = 3.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
263	4.520	4.948	4.960	3.000	-31.00	94.90	.3200	664.0	130.6	4.573	2531.	.2055-03
268	4.520	4.941	4.980	3.000	-31.00	94.70	.3190	664.0	130.5	4.566	2530.	.2052-03
269	4.520	4.948	4.980	3.000	-31.00	94.90	.3200	664.0	130.5	4.572	2530.	.2055-03
270	4.520	4.957	4.980	3.000	-31.00	95.00	.3200	664.0	130.5	4.578	2530.	.2058-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
263	.1051-06	.4683-01	.1152-01
268	.1051-06	.4679-01	.1153-01
269	.1051-06	.4682-01	.1152-01
270	.1050-06	.4685-01	.1151-01

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
269	.00000	.30000-02	730.00	.4124	.2745	.3307	.9746	.1285-01	.1548-01	1.276	8.681	564.6
269	.00000	.10300-01	731.00	.1762	.1269	.2313	.9193	.5941-02	.1083-01	.7050	4.859	545.2
269	.00000	.15000-01	732.00	.1583	.1144	.2071	.9193	.5355-02	.9695-02	.6400	4.363	544.2
269	.00000	.20000-01	733.00	.3004	.2080	.2532	.9710	.9737-02	.1185-01	1.050	7.177	556.0
269	.00000	.25000-01	734.00	.6108	.3694	.4896	.9689	.1730-01	.2292-01	1.453	9.720	579.9
269	.00000	.30000-01	735.00	.6684	.4117	.5502	.9672	.1928-01	.2576-01	1.696	11.23	577.4
269	.00000	.40000-01	737.00	.4426	.2953	.3828	.9657	.1393-01	.1792-01	1.380	8.924	564.1
269	.00000	.45000-01	738.00	.4274	.2877	.3769	.9638	.1347-01	.1764-01	1.369	8.988	562.3
269	.00000	.60000-01	739.00	.4359	.2773	.3973	.9585	.1298-01	.1860-01	1.194	7.855	572.6
269	.00000	.70000-01	740.00	.4197	.2677	.3968	.9551	.1253-01	.1858-01	1.149	7.669	572.2
269	.00000	.80000-01	741.00	.3384	.2233	.3323	.9518	.1046-01	.1556-01	1.020	7.346	566.3
269	.00000	.10000+00	742.00	.2753	.1866	.2873	.9456	.8736-02	.1345-01	.8990	5.967	560.9
269	.00000	.12500	743.00	.1989	.1337	.2235	.9387	.6261-02	.1046-01	.6340	4.576	562.5
269	.00000	.15000	744.00	.1574	.1149	.1988	.9327	.5381-02	.9310-02	.5700	3.940	557.9
269	.00000	.17500	745.00	.1140	.7980-01	.1412	.9276	.3735-02	.6612-02	.4130	3.090	553.4
269	.00000	.20000	746.00	.8390-01	.5990-01	.1065	.9235	.2802-02	.4985-02	.3250	2.323	547.9

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F16)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
269	.00000	.21500	747.00	.7380-01	.5270-01	.9550-01	.9216	.2466-02	.4474-02	.2860	1.881	547.9
269	.00000	.23000	748.00	.5920-01	.4220-01	.7790-01	.9201	.1978-02	.3349-02	.2290	1.692	548.0
269	.00000	.24000	749.00	.5250-01	.3770-01	.6940-01	.9193	.1763-02	.3248-02	.2070	1.558	546.7
269	.00000	.25000	750.00	.2970-01	.2130-01	.3930-01	.9193	.9971-03	.1839-02	.1170	.9440	546.9
269	.00000	.30000	751.00	.5990-01	.4280-01	.7910-01	.9193	.2006-02	.3706-02	.2340	1.536	547.1
269	.00000	.40000	753.00	.5320-01	.3840-01	.6960-01	.9193	.1797-02	.3260-02	.2140	1.381	544.5
269	.00000	.50000	754.00	.5200-01	.3710-01	.6900-01	.9193	.1739-02	.3232-02	.2020	1.318	547.9
269	.00000	.60000	755.00	.5200-01	.3720-01	.6870-01	.9193	.1742-02	.3217-02	.2030	1.304	547.0
269	.00000	.70000	756.00	.4820-01	.3410-01	.6460-01	.9193	.1595-02	.3023-02	.1810	1.191	550.5
269	.00000	.80000	757.00	.4740-01	.3330-01	.6390-01	.9193	.1560-02	.2993-02	.1740	1.090	552.0
269	.00000	.90000	758.00	.2290-01	.1580-01	.3140-01	.9193	.7412-03	.1471-02	.8000-01	.5150	555.9
269	55.000	.22000	759.00	.6710-01	.4810-01	.8670-01	.9213	.2252-02	.4060-02	.2640	1.966	546.5
269	55.000	.25000	760.00	.3290-01	.2350-01	.4340-01	.9195	.1103-02	.2032-02	.1290	1.010	546.9
269	55.000	.27000	761.00	.4310-01	.3060-01	.5740-01	.9195	.1432-02	.2686-02	.1640	1.218	549.4
269	55.000	.30000	762.00	.6010-01	.4310-01	.7900-01	.9195	.2019-02	.3699-02	.2380	1.429	546.1
269	55.000	.32000	763.00	.5830-01	.4210-01	.7620-01	.9195	.1971-02	.3566-02	.2360	1.396	544.3
269	55.000	.34000	764.00	.5300-01	.3820-01	.6920-01	.9195	.1790-02	.3242-02	.2140	1.268	544.5
269	55.000	.36000	765.00	.5510-01	.3980-01	.7200-01	.9195	.1862-02	.3369-02	.2220	1.339	544.4
269	55.000	.38000	766.00	.5700-01	.4120-01	.7440-01	.9195	.1930-02	.3483-02	.2310	1.408	544.0
269	55.000	.40000	767.00	.5260-01	.3800-01	.6870-01	.9195	.1782-02	.3215-02	.2140	1.337	544.0
269	67.500	.23000	768.00	.6280-01	.4500-01	.8220-01	.9200	.2109-02	.3849-02	.2480	1.845	546.3
269	67.500	.25000	769.00	.3110-01	.2230-01	.4100-01	.9192	.1043-02	.1921-02	.1220	.9530	546.5
269	67.500	.27000	770.00	.4790-01	.3400-01	.6280-01	.9192	.1594-02	.2988-02	.1830	1.334	548.9
269	67.500	.29000	771.00	.4470-01	.3200-01	.5920-01	.9192	.1496-02	.2770-02	.1750	1.081	547.2
269	67.500	.30000	772.00	.5610-01	.4020-01	.7420-01	.9192	.1884-02	.3473-02	.2210	1.349	546.7
269	67.500	.31000	773.00	.5820-01	.4170-01	.7680-01	.9192	.1954-02	.3595-02	.2300	1.392	546.4
269	67.500	.32000	774.00	.5340-01	.3850-01	.7020-01	.9192	.1802-02	.3287-02	.2140	1.287	545.2
269	67.500	.32500	775.00	.5350-01	.3860-01	.7020-01	.9192	.1808-02	.3285-02	.2160	1.301	544.6
269	67.500	.33000	776.00	.5370-01	.3860-01	.7060-01	.9192	.1809-02	.3304-02	.2140	1.297	545.3
269	67.500	.33500	777.00	.5940-01	.4230-01	.7770-01	.9192	.2009-02	.3638-02	.2410	1.457	544.1
269	67.500	.34000	778.00	.5500-01	.3980-01	.7200-01	.9192	.1862-02	.3373-02	.2230	1.349	544.2
269	67.500	.34500	779.00	.5400-01	.3900-01	.7080-01	.9192	.1827-02	.3313-02	.2190	1.326	544.3
269	67.500	.35000	780.00	.5400-01	.3910-01	.7060-01	.9192	.1830-02	.3304-02	.2200	1.338	543.7
269	67.500	.36000	782.00	.5340-01	.3860-01	.6980-01	.9192	.1807-02	.3266-02	.2170	1.324	543.8
269	67.500	.36500	783.00	.5360-01	.3880-01	.7010-01	.9192	.1816-02	.3280-02	.2180	1.329	543.7
269	67.500	.37000	784.00	.5470-01	.3960-01	.7140-01	.9192	.1855-02	.3343-02	.2230	1.368	543.4
269	67.500	.37500	785.00	.4910-01	.3550-01	.6430-01	.9192	.1661-02	.3012-02	.1990	1.226	544.2
269	67.500	.38000	786.00	.5200-01	.3760-01	.6800-01	.9192	.1760-02	.3185-02	.2110	1.306	544.0
269	67.500	.39000	787.00	.4880-01	.3530-01	.6400-01	.9192	.1651-02	.2998-02	.1970	1.223	544.5
269	67.500	.40000	738.00	.4440-01	.3210-01	.5800-01	.9192	.1501-02	.2717-02	.1800	1.126	544.0
269	67.500	.50000	789.00	.4820-01	.3430-01	.6410-01	.9192	.1607-02	.3000-02	.1860	1.189	548.4
269	67.500	.60000	790.00	.5900-01	.4220-01	.7810-01	.9192	.1975-02	.3656-02	.2300	1.510	547.2
269	67.500	.70000	791.00	.4680-01	.3280-01	.6340-01	.9192	.1537-02	.2967-02	.1710	1.204	552.6

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F16)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
269	67.500	.80000	792.00	.4920-01	.3470-01	.6610-01	.9192	.1625-02	.3093-02	.1840	1.152	550.8
269	67.500	.90000	793.00	.2570-01	.1780-01	.3530-01	.9192	.8335-03	.1655-02	.9000-01	.5780	555.8
269	78.000	.27000	794.00	.4320-01	.3080-01	.5760-01	.9190	.1440-02	.2695-02	.1660	1.185	548.3
269	78.000	.29000	795.00	.3940-01	.2830-01	.5210-01	.9190	.1324-02	.2439-02	.1560	.9600	546.2
270	78.000	.30000	796.00	.5590-01	.4060-01	.7300-01	.9190	.1900-02	.3421-02	.2300	1.396	542.7
270	78.000	.31000	797.00	.5440-01	.3960-01	.7080-01	.9190	.1856-02	.3316-02	.2270	1.378	541.5
270	78.000	.32000	798.00	.5350-01	.3910-01	.6950-01	.9190	.1830-02	.3257-02	.2250	1.358	540.9
270	78.000	.32500	799.00	.5580-01	.4080-01	.7230-01	.9190	.1913-02	.3389-02	.2360	1.433	540.1
270	78.000	.33000	800.00	.5700-01	.4170-01	.7390-01	.9190	.1952-02	.3461-02	.2410	1.459	540.3
270	78.000	.33500	801.00	.5520-01	.4040-01	.7130-01	.9190	.1895-02	.3342-02	.2350	1.428	539.4
270	78.000	.34000	802.00	.5630-01	.4130-01	.7280-01	.9190	.1933-02	.3410-02	.2400	1.456	539.5
270	78.000	.34500	803.00	.5120-01	.3760-01	.6610-01	.9190	.1760-02	.3097-02	.2190	1.335	539.0
270	78.000	.35000	804.00	.5280-01	.3870-01	.6820-01	.9190	.1815-02	.3195-02	.2250	1.375	539.1
270	78.000	.35500	805.00	.5060-01	.3710-01	.6520-01	.9190	.1739-02	.3054-02	.2170	1.321	538.8
270	78.000	.35800	806.00	.5280-01	.3880-01	.6800-01	.9190	.1816-02	.3188-02	.2270	1.384	538.7
270	78.000	.36000	806.00	.5280-01	.3880-01	.6800-01	.9190	.1638-02	.2881-02	.2040	1.260	538.9
270	78.000	.36500	807.00	.4770-01	.3500-01	.6150-01	.9190	.1684-02	.2957-02	.2100	1.291	538.7
270	78.000	.37000	808.00	.4900-01	.3590-01	.6310-01	.9190	.1729-02	.3041-02	.2150	1.322	539.0
270	78.000	.37500	809.00	.5030-01	.3690-01	.6490-01	.9190	.1602-02	.2816-02	.2000	1.234	538.8
270	78.000	.38000	810.00	.4680-01	.3420-01	.6010-01	.9190	.1913-02	.3209-02	.2240	1.385	540.0
270	78.000	.38500	811.00	.5080-01	.3870-01	.6850-01	.9190	.1409-02	.2461-02	.1750	1.095	539.1
270	78.000	.40000	812.00	.4100-01	.3010-01	.5280-01	.9190	.1336-01	.1740-01	1.448	9.377	555.6
263	90.000	.40000-01	986.00	.4111	.2852	.3715	.9521	.1423-01	.1894-01	1.591	10.19	552.9
263	90.000	.50000-01	986.00	.4335	.3039	.4043	.9595	.1283-01	.1834-01	1.277	9.389	564.5
263	90.000	.60000-01	987.00	.4111	.2733	.3915	.9550	.1169-01	.1726-01	1.241	8.743	557.9
263	90.000	.80000-01	989.00	.3633	.2496	.3585	.9384	.4706-02	.7865-02	.5430	3.983	548.6
263	90.000	.15000	991.00	.1411	.1005	.1679	.9302	.3357-03	.5922-03	.4200-01	.3030	539.9
270	90.000	.20000	813.00	.9900-02	.7200-02	.1250-01	.9192	.1381-02	.2485-02	.1680	1.361	542.1
270	90.000	.24000	814.00	.4060-01	.2950-01	.5300-01	.9187	.1336-02	.2452-02	.1580	1.126	545.1
270	90.000	.27000	815.00	.3950-01	.2850-01	.5230-01	.9187	.1496-02	.2705-02	.1810	1.165	542.9
270	90.000	.28000	817.00	.4400-01	.3190-01	.5770-01	.9187	.1937-02	.3508-02	.2330	1.428	543.2
270	90.000	.30000	818.00	.5710-01	.4130-01	.7490-01	.9187	.1989-02	.3547-02	.2380	1.386	541.5
270	90.000	.31000	819.00	.5480-01	.3960-01	.7140-01	.9187	.1817-02	.3221-02	.2250	1.364	539.9
270	90.000	.32000	820.00	.6370-01	.4580-01	.8280-01	.9187	.1752-02	.3109-02	.2170	1.319	540.0
270	90.000	.32500	821.00	.6110-01	.4390-01	.7940-01	.9187	.1741-02	.3057-02	.2160	1.325	538.3
270	90.000	.33000	822.00	.6050-01	.4350-01	.7870-01	.9187	.1734-02	.3043-02	.2180	1.317	538.2
270	90.000	.34000	824.00	.5880-01	.4230-01	.6500-01	.9187	.1696-02	.2960-02	.2140	1.301	537.3
270	90.000	.34500	825.00	.4910-01	.3530-01	.6320-01	.9187	.1543-02	.2713-02	.1930	1.172	538.5
270	90.000	.35000	826.00	.4480-01	.3090-01	.5790-01	.9187	.1604-02	.2823-02	.2000	1.213	538.7
270	90.000	.36000	828.00	.4660-01	.3420-01	.6020-01	.9187	.1659-02	.2918-02	.2070	1.260	539.5
270	90.000	.36500	829.00	.4820-01	.3540-01	.6230-01	.9187	.1620-02	.2830-02	.2040	1.245	537.4
270	90.000	.37000	830.00	.4690-01	.3460-01	.6040-01	.9187	.1608-02	.2823-02	.2020	1.234	538.2
270	90.000	.37500	831.00	.4670-01	.3430-01	.6030-01	.9187	.1541-02	.2702-02	.1940	1.185	538.0
270	90.000	.38000	832.00	.4470-01	.3290-01	.5771-01	.9187					

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F16)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
270	90.000	.39000	833.00	.4550-01	.3340-01	.5880-01	.9187	.1564-02	.2753-02	.1950	1.209	538.7
270	90.000	.40000	834.00	.4480-01	.3290-01	.5790-01	.9187	.1540-02	.2711-02	.1920	1.194	538.7
270	90.000	.50000	835.00	.4260-01	.3080-01	.5600-01	.9187	.1441-02	.2625-02	.1720	1.091	544.0
270	90.000	.60000	836.00	.4510-01	.3290-01	.5870-01	.9187	.1542-02	.2751-02	.1890	1.265	540.8
270	90.000	.70000	837.00	.4030-01	.2890-01	.5350-01	.9187	.1354-02	.2505-02	.1590	1.120	546.2
270	90.000	.80000	838.00	.4070-01	.2940-01	.5370-01	.9187	.1377-02	.2514-02	.1640	1.022	544.3
270	90.000	.90000	839.00	.2520-01	.1780-01	.3390-01	.9187	.8340-03	.1590-02	.9500-01	.6040	550.1
270	112.50	.23000	840.00	.3910-01	.2870-01	.5060-01	.9186	.1347-02	.2372-02	.1680	1.362	538.7
270	112.50	.25000	841.00	.2060-01	.1500-01	.2680-01	.9183	.7042-03	.1256-02	.8700-01	.6750	540.3
270	112.50	.30000	843.00	.4210-01	.3080-01	.5490-01	.9183	.1441-02	.2571-02	.1780	1.060	540.3
270	112.50	.33000	844.00	.4550-01	.3350-01	.5900-01	.9183	.1567-02	.2763-02	.1960	1.188	538.4
270	112.50	.35000	845.00	.4160-01	.3060-01	.5370-01	.9183	.1435-02	.2515-02	.1810	1.116	537.3
270	112.50	.37000	846.00	.4120-01	.3030-01	.5330-01	.9183	.1419-02	.2496-02	.1790	1.104	538.0
270	112.50	.40000	847.00	.4020-01	.2970-01	.5190-01	.9183	.1391-02	.2432-02	.1760	1.102	537.0
270	112.50	.45000	848.00	.3960-01	.2920-01	.5130-01	.9183	.1368-02	.2402-02	.1720	1.087	537.7
270	112.50	.50000	849.00	.3530-01	.2560-01	.4640-01	.9183	.1199-02	.2174-02	.1450	.9340	542.7
270	112.50	.55000	850.00	.2620-01	.2040-01	.3710-01	.9183	.9575-03	.1737-02	.1160	.7740	542.8
270	112.50	.60000	851.00	.3810-01	.2790-01	.4970-01	.9183	.1306-02	.2327-02	.1610	1.084	540.1
270	112.50	.65000	852.00	.3520-01	.2570-01	.4610-01	.9183	.1205-02	.2158-02	.1480	1.008	540.9
270	112.50	.70000	853.00	.3060-01	.2210-01	.4060-01	.9183	.1035-02	.1901-02	.1230	.8640	544.7
270	112.50	.75000	854.00	.2320-01	.1660-01	.3100-01	.9183	.7797-03	.1454-02	.9100-01	.5910	545.8
270	112.50	.80000	855.00	.3100-01	.2240-01	.4100-01	.9183	.1051-02	.1922-02	.1260	.8190	544.0
270	112.50	.90000	856.00	.1930-01	.1380-01	.2590-01	.9183	.6459-03	.1213-02	.7500-01	.4860	547.7
270	125.40	.84000	857.00	.2660-01	.1930-01	.3510-01	.9183	.9024-03	.1644-02	.1080	.6710	543.4
270	125.40	.85000	858.00	.2520-01	.1820-01	.3330-01	.9183	.8522-03	.1561-02	.1020	.6330	544.2
270	125.40	.86000	859.00	.2550-01	.1840-01	.3380-01	.9183	.8632-03	.1582-02	.1030	.6460	544.3
270	125.40	.87000	860.00	.2470-01	.1780-01	.3260-01	.9183	.8346-03	.1528-02	.1000+00	.6280	544.1
270	125.40	.88000	861.00	.2610-01	.1880-01	.3480-01	.9183	.8803-03	.1629-02	.1040	.6530	545.7
270	125.40	.89000	862.00	.2690-01	.1930-01	.3590-01	.9183	.9050-03	.1681-02	.1060	.6720	546.2
270	125.40	.90000	863.00	.2260-01	.1620-01	.3030-01	.9183	.7568-03	.1418-02	.8800-01	.5590	547.3
270	125.40	.91000	864.00	.1430-01	.1020-01	.1900-01	.9183	.4787-03	.8922-03	.5600-01	.4070	546.6
270	125.40	.92600	865.00	.1560-01	.1110-01	.2100-01	.9183	.5194-03	.9831-03	.6000-01	.4320	548.7
270	129.30	.80000	866.00	.2660-01	.1920-01	.3510-01	.9183	.9016-03	.1643-02	.1080	.6820	543.4
270	129.30	.81000	867.00	.2470-01	.1790-01	.3260-01	.9183	.8399-03	.1525-02	.1010	.6350	543.0
270	129.30	.82000	868.00	.2370-01	.1720-01	.3120-01	.9183	.8056-03	.1464-02	.9700-01	.6080	543.0
270	129.30	.83000	869.00	.2410-01	.1740-01	.3170-01	.9183	.8162-03	.1485-02	.9800-01	.6170	543.2
270	135.00	.40000-01	870.00	.4123	.2878	.3965	.9546	.1348-01	.1858-01	1.481	9.488	553.8
270	135.00	.50000-01	871.00	.4240	.2965	.4199	.9511	.1389-01	.1967-01	1.534	9.773	553.2
270	135.00	.70000-01	873.00	.3318	.2268	.3491	.9446	.1062-01	.1636-01	1.114	7.532	558.8
270	135.00	.10000+00	875.00	.2142	.1530	.2408	.9362	.7166-02	.1128-01	.8320	5.457	547.5
270	135.00	.15000	876.00	.1197	.8650-01	.1474	.9256	.4051-02	.6907-02	.4840	3.543	544.2
270	135.00	.20000	877.00	.5970-01	.4410-01	.7610-01	.9195	.2065-02	.3566-02	.2620	1.774	536.8
270	135.00	.35000	878.00	.4150-01	.3070-01	.5340-01	.9183	.1437-02	.2501-02	.1830	1.145	536.1

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F16)

IHN1(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
270	135.00	.40000	879.00	.3590-01	.2650-01	.4630-01	.9183	.1241-02	.2167-02	.1570	1.003	536.7
270	135.00	.50000	880.00	.2640-01	.1920-01	.3450-01	.9183	.9005-03	.1618-02	.1100	.7580	541.4
270	135.00	.55000	881.00	.2270-01	.1650-01	.2980-01	.9183	.7741-03	.1398-02	.9400-01	.6280	542.2
270	135.00	.60000	882.00	.2070-01	.2090-01	.3760-01	.9183	.9811-03	.1760-02	.1200	.8100	541.1
270	135.00	.65000	883.00	.2880-01	.2110-01	.3770-01	.9183	.9870-03	.1764-02	.1210	.8320	540.5
270	135.00	.70000	884.00	.2440-01	.1760-01	.3230-01	.9183	.8225-03	.1513-02	.9800-01	.6950	544.9
270	135.00	.75000	885.00	.2080-01	.1490-01	.2770-01	.9183	.6990-03	.1299-02	.8200-01	.5170	546.2
270	135.00	.80000	886.00	.2380-01	.1720-01	.3140-01	.9183	.8071-03	.1469-02	.9700-01	.6120	543.3
270	135.00	.84000	887.00	.7590-01	.5980-01	.9460-01	.9130	.2678-02	.4234-02	.0000	.0000	244.7
263	135.00	.85000	888.00	.2320-01	.1690-01	.3040-01	.9183	.7899-03	.1424-02	.9500-01	.6110	542.2
263	135.00	.87000	890.00	.2230-01	.1620-01	.2940-01	.9183	.7581-03	.1378-02	.9100-01	.5820	543.4
263	135.00	.88000	891.00	.2330-01	.1680-01	.3080-01	.9183	.7887-03	.1445-02	.9400-01	.6030	544.5
263	135.00	.89000	892.00	.2140-01	.1550-01	.2840-01	.9183	.7245-03	.1328-02	.8700-01	.5630	544.6
263	135.00	.91000	894.00	.8000-02	.5800-02	.1050-01	.9183	.2712-03	.4936-03	.3300-01	.2380	543.6
263	135.00	.92600	895.00	.1270-01	.9200-02	.1680-01	.9183	.4295-03	.7889-03	.5100-01	.3720	544.9
263	135.00	.95000	896.00	.3700-01	.2650-01	.4940-01	.9183	.1239-02	.2313-02	.1450	1.046	547.1
263	142.30	.42000	897.00	.3580-01	.2650-01	.4610-01	.9183	.1242-02	.2161-02	.1580	1.024	536.4
263	142.30	.43500	899.00	.3410-01	.2530-01	.4380-01	.9183	.1183-02	.2052-02	.1520	.9530	535.9
263	142.30	.45000	899.00	.3230-01	.2380-01	.4150-01	.9183	.1117-02	.1945-02	.1420	.9350	536.6
263	142.30	.50000	900.00	.2790-01	.2040-01	.3620-01	.9183	.9566-03	.1696-02	.1190	.7960	539 6
263	142.30	.60000	901.00	.2900-01	.2130-01	.3770-01	.9183	.9954-03	.1766-02	.1240	.8250	539.7
263	142.30	.70000	902.00	.2560-01	.1860-01	.3370-01	.9183	.8712-03	.1577-02	.1060	.7220	542.8
263	142.30	.80000	903.00	.2720-01	.1970-01	.3570-01	.9183	.9240-03	.1671-02	.1120	.7140	542.7
263	142.30	.87000	904.00	.2430-01	.1760-01	.3210-01	.9183	.8228-03	.1503-02	.3900-01	.6240	544.2
263	154.98	.42000	905.00	.3450-01	.2550-01	.4440-01	.9183	.1197-02	.2077-02	.1530	.9930	536.0
263	154.98	.43500	906.00	.3100-01	.2300-01	.3990-01	.9183	.1076-02	.1869-02	.1370	.8950	535.4
263	154.98	.45000	907.00	.3030-01	.2240-01	.3910-01	.9183	.1050-02	.1820-02	.1330	.8750	536.8
263	154.98	.50000	908.00	.2580-01	.1880-01	.3360-01	.9183	.8860-03	.1574-02	.1100	.7900	539.8
263	154.98	.93500	913.00	.2700-01	.1930-01	.3500-01	.9183	.9048-03	.1687-02	.1060	.7700	547.0
263	154.98	.94500	914.00	.3690-01	.2640-01	.4950-01	.9183	.1234-02	.2320-02	.1430	1.030	548.0
263	157.50	.70000-01	918.00	.3268	.2231	.3542	.9417	.1045-01	.1659-01	1.093	7.551	559.4
263	157.50	.80000-01	919.00	.3006	.2057	.3352	.9388	.9632-02	.1570-01	1.013	6.863	558.8
263	157.50	.10000+00	920.00	.1832	.1319	.2099	.9336	.6179-02	.9828-02	.7340	4.904	545.3
263	157.50	.20000	922.00	.4130-01	.3070-01	.5250-01	.9188	.1439-02	.2465-02	.1860	1.249	534.5
263	157.50	.25000	923.00	.3040-01	.2260-01	.3900-01	.9183	.1056-02	.1827-02	.1360	.8990	535.6
263	157.50	.43500	924.00	.2900-01	.2080-01	.3600-01	.9183	.9744-03	.1685-02	.1250	.8250	535.4
263	157.50	.45000	925.00	.2730-01	.2020-01	.3500-01	.9183	.9457-03	.1641-02	.1210	.8040	535.9
263	157.50	.85000	926.00	.2520-01	.1830-01	.3310-01	.9183	.8731-03	.1552-02	.1040	.6770	542.5
263	157.50	.86000	927.00	.2390-01	.1740-01	.3140-01	.9183	.8141-03	.1470-02	.9900-01	.6440	542.4
263	157.50	.87000	928.00	.2890-01	.2100-01	.3800-01	.9183	.9823-03	.1779-02	.1190	.7760	542.8
263	157.50	.88000	929.00	.2640-01	.1910-01	.3490-01	.9183	.8961-03	.1633-02	.1080	.7060	543.8
263	157.50	.89000	930.00	.2460-01	.1770-01	.3250-01	.9183	.8302-03	.1522-02	.9900-01	.6530	544.6
263	157.50	.90000	931.00	.1980-01	.1430-01	.2620-01	.9183	.6702-03	.1225-02	.8000-01	.5420	544.2

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
263	157.50	.91000	932.00	.1090-01	.7900-02	.1440-01	.9183	.3686-03	.6754-03	.4400-01	.3230	544.5
263	157.50	.92600	933.00	.1640-01	.1180-01	.2180-01	.9183	.5536-03	.1022-02	.6600-01	.4780	545.6
263	163.12	.41500	934.00	.2920-01	.2170-01	.3730-01	.9183	.1017-02	.1748-02	.1320	.8610	534.3
263	163.12	.42000	935.00	.2910-01	.2160-01	.3740-01	.9183	.1012-02	.1750-02	.1300	.8570	535.4
263	163.12	.43000	937.00	.2900-01	.2150-01	.3730-01	.9183	.1007-02	.1746-02	.1290	.8520	535.8
263	163.12	.44000	938.00	.2910-01	.2160-01	.3750-01	.9183	.1010-02	.1755-02	.1290	.8490	536.2
263	163.12	.44500	939.00	.2750-01	.2040-01	.3540-01	.9183	.9537-03	.1659-02	.1220	.8130	536.4
263	163.12	.45000	940.00	.2790-01	.2070-01	.3590-01	.9183	.9676-03	.1682-02	.1240	.8250	536.3
263	163.12	.50000	941.00	.2410-01	.1770-01	.3120-01	.9183	.8286-03	.1462-02	.1040	.7060	538.8
263	163.12	.60000	942.00	.2770-01	.2030-01	.3600-01	.9183	.9504-03	.1685-02	.1160	.7650	539.6
263	163.12	.70000	943.00	.2380-01	.1730-01	.3110-01	.9183	.8119-03	.1457-02	.9900-01	.6950	541.5
263	163.12	.80000	944.00	.2670-01	.1940-01	.3510-01	.9183	.9088-03	.1645-02	.1100	.7200	542.8
263	168.00	.35000	945.00	.3300-01	.2460-01	.4210-01	.9183	.1152-02	.1971-02	.1500	.9600	533.4
263	168.00	.36000	946.00	.3150-01	.2360-01	.4010-01	.9183	.1103-02	.1878-02	.1450	.9280	532.5
263	168.00	.37000	947.00	.3030-01	.2260-01	.3870-01	.9183	.1057-02	.1814-02	.1380	.8830	533.9
263	168.00	.37500	948.00	.3000-01	.2230-01	.3830-01	.9183	.1046-02	.1795-02	.1360	.8720	534.0
263	168.00	.38500	950.00	.2610-01	.1950-01	.3320-01	.9183	.9126-03	.1557-02	.1200	.7770	532.9
263	168.00	.39000	951.00	.2950-01	.2200-01	.3760-01	.9183	.1029-02	.1762-02	.1340	.8770	533.6
263	168.00	.39500	952.00	.2910-01	.2170-01	.3720-01	.9183	.1015-02	.1740-02	.1320	.8500	533.8
263	168.00	.40000	953.00	.2820-01	.2100-01	.3610-01	.9183	.9812-03	.1689-02	.1270	.8310	534.6
263	168.00	.40500	954.00	.2790-01	.2070-01	.3570-01	.9183	.9706-03	.1672-02	.1250	.8240	534.7
263	168.00	.41000	955.00	.2790-01	.2070-01	.3580-01	.9183	.9710-03	.1675-02	.1250	.8230	534.9
263	168.00	.41500	956.00	.2890-01	.2150-01	.3700-01	.9183	.1005-02	.1734-02	.1300	.8530	535.0
263	168.00	.42000	957.00	.2840-01	.2110-01	.3640-01	.9183	.9873-03	.1704-02	.1270	.8410	535.0
263	168.00	.42500	958.00	.2860-01	.2120-01	.3670-01	.9183	.9946-03	.1720-02	.1280	.8440	535.4
263	168.00	.43000	959.00	.2940-01	.2180-01	.3780-01	.9183	.1021-02	.1768-02	.1310	.8620	535.7
263	168.00	.44000	960.00	.2930-01	.2170-01	.3770-01	.9183	.1018-02	.1763-02	.1310	.8630	535.6
263	168.00	.44500	961.00	.2850-01	.2110-01	.3660-01	.9183	.9878-03	.1716-02	.1260	.8330	536.2
263	168.00	.45500	963.00	.2740-01	.2030-01	.3520-01	.9183	.9495-03	.1650-02	.1210	.8050	536.2
263	168.00	.46000	964.00	.2750-01	.2030-01	.3550-01	.9183	.9509-03	.1661-02	.1210	.8060	537.1
263	168.00	.47000	965.00	.2660-01	.1970-01	.3440-01	.9183	.9208-03	.1610-02	.1170	.7810	537.3
263	168.00	.48000	966.00	.2570-01	.1890-01	.3320-01	.9183	.8848-03	.1557-02	.1110	.7510	538.3
263	168.00	.49000	967.00	.2500-01	.1840-01	.3220-01	.9183	.8624-03	.1508-02	.1090	.7380	537.3
263	168.00	.85000	968.00	.2420-01	.1760-01	.3170-01	.9183	.8237-03	.1485-02	.1000+00	.6520	542.2
263	168.00	.86000	969.00	.2300-01	.1670-01	.3020-01	.9183	.7829-03	.1416-02	.9500-01	.6190	542.7
263	168.00	.87000	970.00	.2290-01	.1660-01	.3020-01	.9183	.7782-03	.1412-02	.9400-01	.6150	543.1
263	168.00	.88000	971.00	.2300-01	.1670-01	.3040-01	.9183	.7798-03	.1425-02	.9300-01	.6120	544.2
263	168.00	.89000	972.00	.2140-01	.1540-01	.2840-01	.9183	.7233-03	.1330-02	.8600-01	.5720	545.0
263	168.00	.90000	973.00	.1870-01	.1350-01	.2460-01	.9183	.6327-03	.1151-02	.7600-01	.5190	543.5
263	168.00	.91000	974.00	.9700-02	.7000-02	.1280-01	.9183	.3286-03	.5984-03	.4000-01	.2890	543.7
263	168.00	.92600	975.00	.1330-01	.9600-02	.1770-01	.9183	.4476-03	.8275-03	.5300-01	.3830	545.8
263	168.00	.95000	976.00	.2760-01	.1970-01	.3710-01	.9183	.9229-03	.1736-02	.1070	.7690	548.1
263	180.00	.20000-01	982.00	.5570-01	.4210-01	.5420-01	.9541	.1971-02	.2540-02	.2680	1.882	528.0

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F16)

IHN1(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
263	180.00	.25000-01	983.00	.1400	.1041	.1380	.9521	.4875-02	.6462-02	.6300	4.383	534.7
263	180.00	.30000-01	984.00	.2820	.1958	.2807	.9505	.9169-02	.1315-01	.9960	6.806	555.4
268	180.00	.40000-01	600.00	.3514	.2346	.3549	.9490	.1098-01	.1661-01	1.096	6.987	564.0
268	180.00	.50000-01	601.00	.3794	.2516	.3968	.9457	.1177-01	.1857-01	1.160	7.412	565.3
268	180.00	.60000-01	602.00	.3295	.2135	.3587	.9425	.9988-02	.1678-01	.9420	6.201	569.6
268	180.00	.70000-01	603.00	.3308	.2125	.3745	.9395	.9943-02	.1752-01	.9230	6.221	571.1
268	180.00	.80000-01	604.00	.2936	.1901	.3431	.9368	.8893-02	.1605-01	.8370	5.384	569.7
268	180.00	.10000+00	605.00	.1351	.9400-01	.1608	.9318	.4396-02	.7526-02	.4790	3.423	554.9
268	180.00	.15000	606.00	.7530-01	.5270-01	.9820-01	.9227	.2468-02	.4597-02	.2740	1.983	553.0
268	180.00	.20000	607.00	.3440-01	.2470-01	.4570-01	.9185	.1158-02	.2138-02	.1370	.8920	545.9
268	180.00	.21000	608.00	.2550-01	.1840-01	.3380-01	.9183	.8628-03	.1580-02	.1030	.7130	544.4
268	180.00	.22000	609.00	.1920-01	.1390-01	.2540-01	.9183	.6488-03	.1188-02	.7800-01	.5770	544.4
268	180.00	.30000	610.00	.1080-01	.7800-02	.1430-01	.9183	.3668-03	.6703-03	.4400-01	.3010	544.1
268	180.00	.35000	611.00	.2690-01	.1950-01	.3550-01	.9183	.9105-03	.1666-02	.1090	.7260	544.3
268	180.00	.36000	612.00	.2710-01	.1960-01	.3580-01	.9183	.9169-03	.1673-02	.1100	.7410	543.9
268	180.00	.37500	614.00	.2580-01	.1860-01	.3420-01	.9183	.8726-03	.1600-02	.1040	.7000	544.6
268	180.00	.38000	615.00	.2690-01	.1940-01	.3550-01	.9183	.9090-03	.1661-02	.1090	.7330	544.1
268	180.00	.38500	616.00	.2590-01	.1870-01	.3420-01	.9183	.8745-03	.1599-02	.1050	.7050	544.1
268	180.00	.39000	617.00	.2790-01	.2020-01	.3680-01	.9183	.9467-03	.1722-02	.1140	.7660	543.4
268	180.00	.39500	618.00	.2780-01	.2010-01	.3680-01	.9183	.9400-03	.1722-02	.1120	.7580	544.4
268	180.00	.40000	619.00	.2820-01	.2040-01	.3730-01	.9183	.9539-03	.1747-02	.1140	.7640	544.4
268	180.00	.40500	620.00	.2780-01	.2010-01	.3680-01	.9183	.9410-03	.1723-02	.1120	.7570	544.3
268	180.00	.41000	621.00	.2830-01	.2040-01	.3740-01	.9183	.9550-03	.1751-02	.1140	.7670	544.5
268	180.00	.41500	622.00	.2870-01	.2070-01	.3800-01	.9183	.9708-03	.1776-02	.1160	.7790	544.3
268	180.00	.42500	624.00	.2770-01	.2000-01	.3680-01	.9183	.9355-03	.1720-02	.1110	.7460	545.0
268	180.00	.43000	625.00	.2760-01	.1990-01	.3650-01	.9183	.9328-03	.1710-02	.1110	.7490	544.5
268	180.00	.44000	626.00	.2720-01	.1970-01	.3590-01	.9183	.9198-03	.1678-02	.1100	.7430	543.8
268	180.00	.44500	627.00	.2490-01	.1800-01	.3300-01	.9183	.8430-03	.1544-02	.1010	.6840	544.4
268	180.00	.45000	628.00	.2440-01	.1760-01	.3240-01	.9183	.8233-03	.1516-02	.9800-01	.6630	545.2
268	180.00	.45500	629.00	.2500-01	.1810-01	.3300-01	.9183	.8469-03	.1545-02	.1020	.7010	543.9
268	180.00	.46000	630.00	.2550-01	.1850-01	.3370-01	.9183	.8637-03	.1576-02	.1040	.6980	543.9
268	180.00	.47000	631.00	.2393-01	.1710-01	.3150-01	.9183	.8006-03	.1475-02	.9500-01	.6390	545.3
268	180.00	.48000	632.00	.2390-01	.1720-01	.3170-01	.9183	.8060-03	.1481-02	.9600-01	.6490	544.9
268	180.00	.49000	633.00	.2360-01	.1700-01	.3130-01	.9183	.7969-03	.1467-02	.9500-01	.6460	545.1
268	180.00	.50000	634.00	.2110-01	.1520-01	.2790-01	.9183	.7125-03	.1307-02	.8500-01	.5950	544.6
268	180.00	.55000	635.00	.2110-01	.1510-01	.2810-01	.9183	.7058-03	.1316-02	.8300-01	.5480	546.9
268	180.00	.60000	636.00	.2900-01	.2080-01	.3850-01	.9183	.9742-03	.1801-02	.1150	.7430	545.7
268	180.00	.65000	637.00	.2740-01	.1970-01	.3630-01	.9183	.9222-03	.1697-02	.1100	.7090	545.1
268	180.00	.70000	638.00	.2510-01	.1800-01	.3340-01	.9183	.8418-03	.1562-02	.9900-01	.6780	546.3
268	180.00	.75000	639.00	.1910-01	.1370-01	.2560-01	.9183	.6408-03	.1197-02	.7500-01	.4820	547.1
268	180.00	.80000	640.00	.2300-01	.1650-01	.3060-01	.9183	.7746-03	.1432-02	.9200-01	.5740	545.7
268	180.00	.85000	641.00	.2300-01	.1650-01	.3070-01	.9183	.7718-03	.1439-02	.9000-01	.5710	546.9
268	180.00	.86000	642.00	.2240-01	.1600-01	.2990-01	.9183	.7485-03	.1400-02	.8700-01	.5590	547.3

(RV7F16)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
268	180.00	.87000	643.00	.2040-01	.1450-01	.2740-01	.9183	.6804-03	.1284-02	.7900-01	.5060	548.5
268	180.00	.88000	644.00	.2120-01	.1510-01	.2850-01	.9183	.7042-03	.1332-02	.8100-01	.5270	548.8
268	180.00	.89000	645.00	.1990-01	.1410-01	.2690-01	.9183	.6603-03	.1257-02	.7500-01	.4960	549.6
268	180.00	.90000	646.00	.1100-01	.7900-02	.1480-01	.9183	.3685-03	.6935-03	.4300-01	.2860	548.1
268	180.00	.95000	649.00	.2780-01	.1960-01	.3790-01	.9183	.9159-03	.1772-02	.1030	.7410	551.6
268	191.25	.35000	650.00	.2120-01	.1530-01	.2810-01	.9183	.7168-03	.1314-02	.8600-01	.5760	544.5
268	191.25	.36000	651.00	.2550-01	.1840-01	.3360-01	.9183	.8627-03	.1574-02	.1040	.6990	543.8
268	191.25	.37000	652.00	.2790-01	.2020-01	.3670-01	.9183	.9432-03	.1719-02	.1130	.7630	543.7
268	191.25	.37500	653.00	.2640-01	.1910-01	.3500-01	.9183	.8932-03	.1636-02	.1070	.7200	544.4
268	191.25	.38000	654.00	.2790-01	.2020-01	.3690-01	.9183	.9460-03	.1724-02	.1140	.7680	543.7
268	191.25	.38500	655.00	.2730-01	.1980-01	.3610-01	.9183	.9243-03	.1690-02	.1110	.7470	544.2
268	191.25	.39000	656.00	.2830-01	.2050-01	.3740-01	.9183	.9588-03	.1752-02	.1150	.7760	544.1
268	191.25	.39500	657.00	.2760-01	.1990-01	.3640-01	.9183	.9321-03	.1706-02	.1110	.7530	544.3
268	191.25	.40000	658.00	.2750-01	.1980-01	.3640-01	.9183	.9275-03	.1703-02	.1100	.7480	544.8
268	191.25	.40500	659.00	.2900-01	.2090-01	.3850-01	.9183	.9778-03	.1800-02	.1160	.7860	545.1
268	191.25	.41000	660.00	.2830-01	.2040-01	.3750-01	.9183	.9538-03	.1753-02	.1130	.7660	544.9
268	191.25	.41500	661.00	.2850-01	.2060-01	.3760-01	.9183	.9626-03	.1760-02	.1150	.7760	544.2
268	191.25	.42000	662.00	.2860-01	.2050-01	.3790-01	.9183	.9615-03	.1775-02	.1140	.7670	545.5
268	191.25	.42500	663.00	.2840-01	.2050-01	.3760-01	.9183	.9572-03	.1760-02	.1140	.7700	545.0
268	191.25	.43000	664.00	.2750-01	.1980-01	.3650-01	.9183	.9259-03	.1706-02	.1100	.7500	545.2
268	191.25	.44000	665.00	.2900-01	.2090-01	.3850-01	.9183	.9766-03	.1803-02	.1160	.7840	545.5
269	191.25	.45000	666.00	.2800-01	.2010-01	.3720-01	.9183	.9414-03	.1739-02	.1110	.7550	545.7
268	191.25	.45500	667.00	.2770-01	.1990-01	.3680-01	.9183	.9308-03	.1720-02	.1100	.7470	545.7
268	191.25	.46000	668.00	.2760-01	.1990-01	.3660-01	.9183	.9298-03	.1712-02	.1100	.7520	545.2
268	191.25	.47000	669.00	.2880-01	.2070-01	.3830-01	.9183	.9676-03	.1793-02	.1140	.7780	546.1
268	191.25	.48000	670.00	.2870-01	.2060-01	.3810-01	.9183	.9662-03	.1781-02	.1150	.7820	545.3
268	191.25	.49000	671.00	.2870-01	.2060-01	.3830-01	.9183	.9617-03	.1792-02	.1130	.7660	546.8
268	191.25	.50000	672.00	.2610-01	.1880-01	.3480-01	.9183	.8788-03	.1629-02	.1040	.7200	546.1
268	191.25	.60000	673.00	.2870-01	.2060-01	.3830-01	.9183	.9637-03	.1791-02	.1130	.7260	546.4
268	191.25	.70000	674.00	.2350-01	.1670-01	.3160-01	.9183	.7802-03	.1481-02	.8900-01	.6080	549.2
268	191.25	.85000	676.00	.2010-01	.1440-01	.2680-01	.9183	.6754-03	.1254-02	.7900-01	.5020	546.3
268	191.25	.86000	677.00	.2020-01	.1440-01	.2700-01	.9183	.6755-03	.1263-02	.7900-01	.5040	547.2
268	191.25	.87000	678.00	.1840-01	.1310-01	.2470-01	.9183	.6135-03	.1154-02	.7100-01	.4580	548.1
268	191.25	.88000	679.00	.1940-01	.1390-01	.2610-01	.9183	.6481-03	.1222-02	.7500-01	.4880	548.4
268	191.25	.89000	680.00	.1810-01	.1290-01	.2450-01	.9183	.6032-03	.1145-02	.6900-01	.4570	549.2
268	191.25	.90000	681.00	.1030-01	.7300-02	.1390-01	.9183	.3430-03	.6506-03	.3900-01	.2650	549.2
268	191.25	.92600	683.00	.6700-02	.4700-02	.9000-02	.9183	.2213-03	.4211-03	.2500-01	.1850	549.5
268	191.25	.95000	684.00	.2800-01	.1980-01	.3800-01	.9183	.9243-03	.1780-02	.1040	.7520	551.1
268	197.00	.33000	685.00	.1500-01	.1080-01	.1970-01	.9183	.5069-03	.9230-03	.6100-01	.4100	543.6
268	197.00	.34000	686.00	.1610-01	.1160-01	.2120-01	.9183	.5439-03	.9937-03	.6500-01	.4390	544.1
268	197.00	.35000	687.00	.1810-01	.1310-01	.2390-01	.9183	.6131-03	.1119-02	.7400-01	.4950	543.9
268	197.00	.36000	688.00	.2140-01	.1540-01	.2830-01	.9183	.7225-03	.1322-02	.8600-01	.5810	544.3
268	197.00	.37000	689.00	.2350-01	.1700-01	.3110-01	.9183	.7959-03	.1457-02	.9500-01	.6400	544.4

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F16)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
268	197.00	.37500	690.00	.2300-01	.1660-01	.3050-01	.9183	.7753-03	.1426-02	.9200-01	.6220	545.1
268	197.00	.50000	691.00	.2760-01	.1980-01	.3670-01	.9183	.9251-03	.1718-02	.1090	.7310	546.3
268	197.00	.60000	692.00	.2780-01	.2000-01	.3710-01	.9183	.9354-03	.1734-02	.1100	.7110	546.1
268	197.00	.70000	693.00	.2110-01	.1500-01	.2830-01	.9183	.7025-03	.1327-02	.8100-01	.5490	548.6
268	197.00	.80000	694.00	.2200-01	.1570-01	.2940-01	.9183	.7349-03	.1375-02	.8600-01	.5380	547.4
268	197.00	.87000	695.00	.2120-01	.1510-01	.2860-01	.9183	.7078-03	.1336-02	.8200-01	.5200	548.5
268	197.00	.92600	696.00	.1000-01	.7100-02	.1360-01	.9183	.3324-03	.6368-03	.3800-01	.2760	550.4
269	209.80	.15000-01	697.00	.2561	.1852	.3071	.9283	.1024-01	.1698-01	.0000	.0000	539.9
269	209.80	.30000-01	698.00	.2411	.1661	.2427	.9492	.7726-02	.1137-01	.8300	5.616	557.1
269	209.80	.50000-01	699.00	.3296	.2266	.3470	.9445	.1061-01	.1625-01	1.127	7.124	557.6
269	209.80	.70000-01	700.00	.3237	.2141	.3674	.9384	.1002-01	.1720-01	.9820	6.579	565.8
269	209.80	.10000+00	701.00	.1558	.1098	.1857	.9308	.5140-02	.8693-02	.5780	3.674	551.5
269	209.80	.15000	702.00	.6710-01	.4790-01	.8640-01	.9221	.2241-02	.4046-02	.2600	1.859	547.8
269	209.80	.20000	703.00	.3030-01	.2210-01	.3960-01	.9184	.1036-02	.1852-02	.1270	.8510	540.8
269	209.80	.30000	704.00	.8700-02	.6400-02	.1130-01	.9183	.2976-03	.5287-03	.3700-01	.2620	539.8
269	209.80	.37500	706.00	.2280-01	.1670-01	.2970-01	.9183	.7816-03	.1389-02	.9700-01	.6680	539.9
269	209.80	.50000	707.00	.2240-01	.1620-01	.2970-01	.9183	.7568-03	.1390-02	.9000-01	.6170	544.8
269	209.80	.60000	708.00	.2390-01	.1730-01	.3170-01	.9183	.8086-03	.1484-02	.9600-01	.6150	544.7
269	209.80	.70000	709.00	.1950-01	.1390-01	.2620-01	.9183	.6528-03	.1228-02	.7600-01	.4820	548.0
269	209.80	.80000	710.00	.1940-01	.1380-01	.2590-01	.9183	.6475-03	.1215-02	.7500-01	.4680	547.7
269	209.80	.87000	711.00	.1890-01	.1340-01	.2550-01	.9183	.6293-03	.1193-02	.7200-01	.4560	549.1
269	209.80	.92600	712.00	.6800-02	.4800-02	.9200-02	.9183	.2259-03	.4302-03	.2600-01	.1870	549.6
269	217.70	.15000-01	713.00	.6890-01	.5050-01	.8980-01	.9183	.2363-02	.4203-02	.2930	2.024	539.9
269	217.70	.30000-01	714.00	.2309	.1587	.2325	.9493	.7432-02	.1088-01	.7890	5.338	557.7
269	217.70	.50000-01	715.00	.3378	.2315	.3557	.9445	.1084-01	.1666-01	1.144	7.419	558.3
269	217.70	.70000-01	716.00	.3242	.2086	.3719	.9385	.9765-02	.1741-01	.9090	6.126	570.8
269	217.70	.10000+00	717.00	.1536	.1080	.1832	.9308	.5057-02	.8576-02	.5660	3.660	552.0
269	217.70	.15000	718.00	.7120-01	.5100-01	.9140-01	.9221	.2389-02	.4279-02	.2800	2.048	546.7
269	217.70	.20000	719.00	.3250-01	.2370-01	.4230-01	.9184	.1111-02	.1981-02	.1370	.9270	540.5
269	217.70	.30000	720.00	.1060-01	.7700-02	.1370-01	.9183	.3616-03	.6438-03	.4500-01	.3210	540.1
269	217.70	.35000	721.00	.1930-01	.1420-01	.2500-01	.9183	.6628-03	.1171-02	.8300-01	.5770	538.8
269	217.70	.37500	722.00	.2470-01	.1810-01	.3210-01	.9183	.8457-03	.1503-02	.1050	.7290	539.9
269	217.70	.50000	723.00	.2330-01	.1690-01	.3060-01	.9183	.7914-03	.1434-02	.9600-01	.6630	542.8
269	217.70	.70000	725.00	.2100-01	.1500-01	.2810-01	.9183	.7036-03	.1315-02	.8200-01	.5220	547.2
269	217.70	.80000	726.00	.2130-01	.1520-01	.2840-01	.9183	.7120-03	.1330-02	.8300-01	.5220	547.1
269	217.70	.87000	727.00	.2040-01	.1450-01	.2730-01	.9183	.6792-03	.1280-02	.7800-01	.5010	548.3
269	217.70	.92600	728.00	.7000-02	.5000-02	.9400-02	.9183	.2319-03	.4391-03	.2700-01	.1940	548.9

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = 5.000 BETA = -3.000 GRIT = 3.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
55	5.500	4.961	5.000	3.000	-31.00	177.9	.1910	743.0	105.4	4.048	2767.	.1522-03
56	5.500	4.968	5.000	3.000	-31.00	177.	.1910	742.0	105.2	4.044	2765.	.1523-03
253	5.500	4.967	5.040	2.900	-30.00	178.1	.1910	743.0	105.4	4.053	2767.	.1523-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
55	.8486-07	.4478-01	.1365-01
56	.8475-07	.4475-01	.1364-01
253	.8487-07	.4480-01	.1364-01

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
55	.00000	.30000-02	730.00	.4295	.3285	.3774	.9724	.1471-01	.1690-01	2.325	15.66	585.1
55	.00000	.10300-01	731.00	.1583	.1282	.1900	.9146	.5739-02	.8508-02	1.119	7.702	548.1
55	.00000	.15000-01	732.00	.1239	.1003	.1487	.9146	.4493-02	.6658-02	.8770	5.962	548.0
55	.00000	.20000-01	733.00	.2260	.1799	.2059	.9690	.8055-02	.9222-02	1.467	10.00	561.0
55	.00000	.25000-01	734.00	.4971	.3711	.4456	.9670	.1662-01	.1996-01	2.436	16.17	596.5
55	.00000	.30000-01	735.00	.6312	.4711	.5715	.9654	.2110-01	.2559-01	3.090	20.63	596.6
55	.00000	.40000-01	737.00	.4106	.3184	.3801	.9638	.1426-01	.1702-01	2.359	15.15	577.6
55	.00000	.45000-01	738.00	.3947	.3089	.3699	.9621	.1383-01	.1656-01	2.366	15.47	572.1
55	.00000	.60000-01	739.00	.4126	.3146	.3958	.9568	.1409-01	.1772-01	2.203	14.52	586.7
55	.00000	.70000-01	740.00	.4269	.3239	.4178	.9534	.1450-01	.1871-01	2.234	14.79	589.1
55	.00000	.80000-01	741.00	.3705	.2817	.3701	.9502	.1261-01	.1657-01	1.956	13.93	588.1
55	.00000	.10000+00	742.00	.2730	.2149	.2823	.9439	.9623-02	.1264-01	1.680	11.10	568.6
55	.00000	.12500	743.00	.2022	.1583	.2183	.9367	.7089-02	.9776-02	1.213	8.709	572.0
55	.00000	.15000	744.00	.1671	.1324	.1863	.9303	.5929-02	.8342-02	1.062	7.323	563.9
55	.00000	.17500	745.00	.1110	.8910-01	.1269	.9246	.3988-02	.5684-02	.7490	5.602	555.4
55	.00000	.20000	746.00	.9010-01	.7290-01	.1049	.9199	.3265-02	.4699-02	.6370	4.553	548.1
55	.00000	.21500	747.00	.6640-01	.5380-01	.7820-01	.9176	.2411-02	.3502-02	.4740	3.286	546.5
55	.00000	.23000	748.00	.5610-01	.4550-01	.6670-01	.9156	.2037-02	.2988-02	.4010	2.967	546.1

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F16)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
55	.00000	.24000	749.00	.4420-01	.3590-01	.5280-01	.9146	.1606-02	.2365-02	.3180	2.397	545.3
55	.00000	.25000	750.00	.2370-01	.1930-01	.2820-01	.9146	.8637-03	.1265-02	.1730	1.401	543.0
55	.00000	.30000	751.00	.5190-01	.4220-01	.6210-01	.9146	.1888-02	.2779-02	.3740	2.455	545.1
55	.00000	.35000	752.00	.5010-01	.4080-01	.5970-01	.9146	.1828-02	.2674-02	.3670	2.323	542.5
55	.00000	.40000	753.00	.4910-01	.4000-01	.5840-01	.9146	.1790-02	.2616-02	.3600	2.320	542.1
55	.00000	.50000	754.00	.4720-01	.3820-01	.5650-01	.9146	.1713-02	.2530-02	.3360	2.201	548.7
55	.00000	.60000	755.00	.4650-01	.3790-01	.5560-0.	.9146	.1696-02	.2488-02	.3380	2.169	543.9
55	.00000	.70000	756.00	.4400-01	.3550-01	.5300-01	.9146	.1590-02	.2372-02	.3060	2.017	550.6
55	.00000	.80000	757.00	.4280-01	.3450-01	.5170-01	.9146	.1544-02	.2313-02	.2950	1.643	552.2
55	.00000	.90000	758.00	.1500-01	.1210-01	.1810-01	.9146	.5435-03	.8111-03	.1050	.6750	550.8
55	55.000	.22000	759.00	.5870-01	.4770-01	.6930-01	.9172	.2135-02	.3103-02	.4220	3.138	545.7
55	55.000	.25000	760.00	.2850-01	.2320-01	.3400-01	.9148	.1041-02	.1520-02	.2090	1.639	542.5
55	55.000	.27000	761.00	.3680-01	.2990-01	.4400-01	.9148	.1337-02	.1971-02	.2630	1.958	546.3
55	55.000	.30000	762.00	.5660-01	.4600-01	.6750-01	.9148	.2061-02	.3021-02	.4110	2.475	543.7
55	55.000	.32000	763.00	.5660-01	.4610-01	.6740-01	.9148	.2063-02	.3017-02	.4130	2.450	542.8
55	55.000	.34000	764.00	.5290-01	.4310-01	.6300-01	.9148	.1929-02	.2819-02	.3870	2.299	542.6
55	55.000	.36000	765.00	.5170-01	.4220-01	.6150-01	.9149	.1889-02	.2755-02	.3800	2.293	541.7
55	55.000	.38000	766.00	.5060-01	.4130-01	.6020-01	.9148	.1850-02	.2697-02	.3730	2.272	541.6
55	55.000	.40000	767.00	.4710-01	.3850-01	.5600-01	.9148	.1723-02	.2509-02	.3480	2.180	541.2
55	67.500	.23000	768.00	.4040-01	.3280-01	.4800-01	.9155	.1470-02	.2150-02	.2920	2.174	544.5
55	67.500	.25000	769.00	.2490-01	.2030-01	.2960-01	.9145	.9089-03	.1327-02	.1830	1.431	541.3
55	67.500	.27000	770.00	.3990-01	.3240-01	.4770-01	.9145	.1451-02	.2138-02	.2870	2.096	545.3
55	67.500	.29000	771.00	.3810-01	.3110-01	.4550-01	.9145	.1393-02	.2037-02	.2800	1.739	542.1
55	67.500	.30000	772.00	.5380-01	.4380-01	.6430-01	.9145	.1962-02	.2877-02	.3920	2.399	543.4
55	67.500	.31000	773.00	.5480-01	.4460-01	.6530-01	.9145	.1997-02	.2926-02	.4000	2.429	542.8
55	67.500	.32000	774.00	.5060-01	.4130-01	.6030-01	.9145	.1849-02	.2702-02	.3720	2.243	541.8
55	67.500	.32500	775.00	.4890-01	.3990-01	.5820-01	.9145	.1785-02	.2608-02	.3600	2.175	541.6
55	67.500	.33000	776.00	.4980-01	.4070-01	.5940-01	.9145	.1821-02	.2659-02	.3670	2.226	541.5
55	67.500	.33500	777.00	.5180-01	.4230-01	.6170-01	.9145	.1894-02	.2764-02	.3830	2.321	541.0
55	67.500	.34000	778.00	.5240-01	.4280-01	.6240-01	.9145	.1916-02	.2795-02	.3870	2.347	541.1
55	67.500	.34500	779.00	.5350-01	.4370-01	.6370-01	.9145	.1955-02	.2852-02	.3950	2.404	540.9
55	67.500	.35000	780.00	.5030-01	.4110-01	.5990-01	.9145	.1839-02	.2681-02	.3730	2.271	540.6
55	67.500	.35500	781.00	.5090-01	.4160-01	.6060-01	.9145	.1861-02	.2714-02	.3760	2.302	540.8
55	67.500	.36000	782.00	.5140-01	.4190-01	.6120-01	.9145	.1878-02	.2739-02	.3800	2.323	540.8
55	67.500	.36500	783.00	.5020-01	.4100-01	.5980-01	.9145	.1838-02	.2676-02	.3730	2.275	540.1
55	67.500	.37000	784.00	.4930-01	.4030-01	.5870-01	.9145	.1804-02	.2627-02	.3660	2.245	540.2
55	67.500	.37500	785.00	.5140-01	.4200-01	.6110-01	.9145	.1880-02	.2738-02	.3810	2.356	540.4
55	67.500	.38000	786.00	.4690-01	.3830-01	.5580-01	.9145	.1716-02	.2499-02	.3480	2.156	540.4
55	67.500	.39000	787.00	.4740-01	.3870-01	.5640-01	.9145	.1731-02	.2524-02	.3500	2.178	540.7
55	67.500	.40000	788.00	.4570-01	.3730-01	.5450-01	.9145	.1670-02	.2439-02	.3370	2.112	541.4
56	67.500	.50000	789.00	.4450-01	.3610-01	.5320-01	.9145	.1617-02	.2383-02	.3200	2.053	545.3
253	67.500	.60000	790.00	.8200-01	.5860-01	.9830-01	.9293	.3248-02	.5447-02	.3870	2.523	561.8
253	67.500	.70000	791.00	.8800-01	.6080-01	.1079	.9293	.3371-02	.5984-02	.3720	2.595	570.7

(RV7F16)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
253	67.500	.80000	792.00	.9450-01	.6590-01	.1153	.9293	.3652-02	.6389-02	.4110	2.552	568.6
253	67.500	.90000	793.00	.6470-01	.4280-01	.8210-01	.9293	.2373-02	.4553-02	.2390	1.514	580.4
253	78.000	.27000	794.00	.7020-01	.4960-01	.8500-01	.9290	.2750-02	.4712-02	.3190	2.256	565.0
253	78.000	.29000	795.00	.1090	.7640-01	.1328	.9290	.4235-02	.7364-02	.4820	2.938	567.3
56	78.000	.30000	796.00	.5190-01	.4220-01	.6220-01	.9141	.1889-02	.2783-02	.3750	2.275	543.5
56	78.000	.31000	797.00	.5170-01	.4210-01	.6190-01	.9141	.1883-02	.2768-02	.3750	2.279	542.6
56	78.000	.32000	798.00	.4990-01	.4060-01	.5960-01	.9141	.1818-02	.2668-02	.3630	2.196	542.0
56	78.000	.32500	799.00	.5110-01	.4160-01	.6110-01	.9141	.1862-02	.2733-02	.3730	2.258	541.8
56	78.000	.33000	800.00	.5060-01	.4120-01	.6050-01	.9141	.1845-02	.2705-02	.3700	2.242	541.4
56	78.000	.33500	801.00	.5020-01	.4090-01	.6000-01	.9141	.1831-02	.2684-02	.3670	2.224	541.5
56	78.000	.34000	802.00	.4670-01	.3810-01	.5570-01	.9141	.1703-02	.2494-02	.3420	2.075	540.3
56	78.000	.34500	803.00	.4860-01	.3970-01	.5810-01	.9141	.1775-02	.2599-02	.3570	2.169	540.5
56	78.000	.35000	804.00	.4770-01	.3890-01	.5700-01	.9141	.1742-02	.2550-02	.3500	2.130	540.6
56	78.000	.35500	805.00	.5120-01	.4180-01	.6120-01	.9141	.1870-02	.2736-02	.3770	2.290	540.6
56	78.000	.36000	806.00	.6900-01	.5630-01	.8240-01	.9141	.2519-02	.3688-02	.5070	3.089	540.6
56	78.000	.36500	807.00	.4710-01	.3840-01	.5630-01	.9141	.1720-02	.2518-02	.3460	2.116	540.7
56	78.000	.37000	808.00	.4440-01	.3620-01	.5310-01	.9141	.1621-02	.2374-02	.3260	1.997	540.9
56	78.000	.37500	809.00	.5020-01	.4090-01	.5990-01	.9141	.1831-02	.2680-02	.3680	2.259	540.7
56	78.000	.38000	810.00	.4950-01	.4040-01	.5910-01	.9141	.1807-02	.2647-02	.3630	2.236	541.1
56	78.000	.39000	811.00	.4450-01	.3620-01	.5310-01	.9141	.1620-02	.2377-02	.3240	2.005	541.7
56	78.000	.40000	812.00	.4500-01	.3670-01	.5380-01	.9141	.1641-02	.2406-02	.3290	2.031	541.6
253	90.000	.40000-01	985.00	.4070	.3134	.3837	.9602	.1404-01	.1719-01	2.270	14.51	581.5
253	90.000	.50000-01	986.00	.3827	.2976	.3688	.9566	.1334-01	.1652-01	2.229	14.21	576.0
253	90.000	.60000-01	987.00	.4076	.3049	.3991	.9532	.1366-01	.1788-01	2.015	12.95	595.6
253	90.000	.80000-01	989.00	.3541	.2710	.3616	.9466	.1214-01	.1620-01	1.923	13.37	584.8
253	90.000	.15000	991.00	.1382	.1027	.1575	.9275	.4872-02	.7056-02	.8480	6.161	569.0
56	90.000	.20000	813.00	.4380-01	.3570-01	.5220-01	.9145	.1595-02	.2337-02	.3190	2.326	541.9
56	90.000	.24000	814.00	.3610-01	.2940-01	.4320-01	.9137	.1315-02	.1934-02	.2630	2.132	541.9
56	90.000	.27000	816.00	.3390-01	.2750-01	.4070-01	.9137	.1233-02	.1822-02	.2440	1.737	544.0
56	90.000	.29000	817.00	.3550-01	.2900-01	.4260-01	.9137	.1296-02	.1905-02	.2590	1.615	541.8
56	90.000	.30000	818.00	.4550-01	.3700-01	.5450-01	.9137	.1656-02	.2440-02	.3300	2.022	542.6
56	90.000	.31000	819.00	.4690-01	.3820-01	.5610-01	.9137	.1709-02	.2512-02	.3430	2.083	541.5
56	90.000	.32000	820.00	.4470-01	.3640-01	.5350-01	.9137	.1631-02	.2395-02	.3270	1.984	541.3
56	90.000	.32500	821.00	.4630-01	.3770-01	.5540-01	.9137	.1689-02	.2477-02	.3400	2.055	540.7
56	90.000	.33000	822.00	.4910-01	.4000-01	.5870-01	.9137	.1792-02	.2625-02	.3620	2.194	540.1
56	90.000	.33500	823.00	.4920-01	.4010-01	.5880-01	.9137	.1796-02	.2629-02	.3630	2.210	539.7
56	90.000	.34000	824.00	.5090-01	.4160-01	.6090-01	.9137	.1861-02	.2724-02	.3760	2.277	539.7
56	90.000	.34500	825.00	.5000-01	.4080-01	.5970-01	.9137	.1826-02	.2672-02	.3700	2.243	539.5
56	90.000	.35000	826.00	.4890-01	.4000-01	.5840-01	.9137	.1788-02	.2615-02	.3620	2.197	539.5
56	90.000	.36000	828.00	.5280-01	.4310-01	.6320-01	.9137	.1930-02	.2826-02	.3900	2.361	539.8
56	90.000	.37000	830.00	.4530-01	.3700-01	.5410-01	.9137	.1657-02	.2422-02	.3360	2.045	539.1
56	90.000	.37500	831.00	.4660-01	.3810-01	.5560-01	.9137	.1704-02	.2490-02	.3460	2.117	538.9
56	90.000	.38000	832.00	.4520-01	.3690-01	.5410-01	.9137	.1653-02	.2420-02	.3340	2.045	539.7

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F16)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
56	90.000	.39000	833.00	.4530-01	.3700-01	.5420-01	.9137	.1656-02	.2424-02	.3350	2.072	539.6
56	90.000	.40000	834.00	.4520-01	.3690-01	.5400-01	.9137	.1651-02	.2417-02	.3340	2.070	539.8
56	90.000	.50000	835.00	.4170-01	.3380-01	.5020-01	.9137	.1513-02	.2248-02	.2970	1.875	546.0
56	90.000	.60000	836.00	.4140-01	.3360-01	.4990-01	.9137	.1504-02	.2233-02	.2950	1.864	545.9
56	90.000	.70000	837.00	.3990-01	.3210-01	.4830-01	.9137	.1438-02	.2160-02	.2760	1.938	550.2
56	90.000	.80000	838.00	.3730-01	.3030-01	.4480-01	.9137	.1355-02	.2003-02	.2680	1.669	544.0
56	90.000	.90000	839.00	.1760-01	.1430-01	.2120-01	.9137	.6412-03	.9469-03	.1270	.8140	543.6
56	112.50	.23000	840.00	.4040-01	.3300-01	.4840-01	.9135	.1477-02	.2166-02	.2980	2.408	540.3
56	112.50	.25000	841.00	.1870-01	.1530-01	.2250-01	.9131	.6852-03	.1005-02	.1390	1.080	539.3
56	112.50	.27000	842.00	.1650-01	.1350-01	.1970-01	.9131	.6019-03	.8821-03	.1220	.6550	538.9
56	112.50	.30000	843.00	.3860-01	.3160-01	.4630-01	.9131	.1412-02	.2073-02	.2860	1.706	539.6
56	112.50	.33000	844.00	.1690-01	.1380-01	.2030-01	.9131	.6168-03	.9063-03	.1240	.7530	540.1
56	112.50	.35000	845.00	.3380-01	.2760-01	.4050-01	.9131	.1237-02	.1812-02	.2510	1.547	538.7
56	112.50	.37000	846.00	.3140-01	.2570-01	.3760-01	.9131	.1150-02	.1683-02	.2340	1.448	539.4
56	112.50	.40000	847.00	.3640-01	.2970-01	.4350-01	.9131	.1331-02	.1947-02	.2710	1.699	538.0
56	112.50	.45000	848.00	.3530-01	.2890-01	.4220-01	.9131	.1291-02	.1890-02	.2630	1.660	538.3
56	112.50	.50000	849.00	.3560-01	.2910-01	.4280-01	.9131	.1300-02	.1915-02	.2610	1.683	541.2
56	112.50	.55000	850.00	.3090-01	.2520-01	.3710-01	.9131	.1128-02	.1658-02	.2270	1.523	540.4
56	112.50	.60000	851.00	.3330-01	.2770-01	.4060-01	.9131	.1241-02	.1815-02	.2530	1.704	538.0
56	112.50	.65000	852.00	.3320-01	.2710-01	.3970-01	.9131	.1213-02	.1775-02	.2470	1.690	539.1
56	112.50	.70000	853.00	.3390-01	.3250-01	.4770-01	.9131	.1453-02	.2133-02	.2940	2.070	539.6
56	112.50	.75000	854.00	.3000-01	.2450-01	.3590-01	.9131	.1098-02	.1605-02	.2240	1.469	537.9
56	112.50	.80000	855.00	.3150-01	.2580-01	.3760-01	.9131	.1156-02	.1681-02	.2380	1.659	535.7
56	112.50	.90000	856.00	.1760-01	.1450-01	.2110-01	.9131	.6472-03	.9429-03	.1330	.9890	535.3
56	112.50	.95000	857.00	.2600-01	.2140-01	.3090-01	.9130	.9555-03	.1382-02	.2000	1.243	532.8
56	125.40	.84000	858.00	.2630-01	.2160-01	.3130-01	.9130	.9659-03	.1398-02	.2020	1.261	533.3
56	125.40	.86000	859.00	.2630-01	.2160-01	.3130-01	.9130	.9671-03	.1401-02	.2020	1.272	533.5
56	125.40	.88000	860.00	.2460-01	.2020-01	.2920-01	.9130	.9027-03	.1305-02	.1880	1.188	533.9
56	125.40	.87000	861.00	.2450-01	.2010-01	.2920-01	.9130	.9011-03	.1306-02	.1870	1.183	534.3
56	125.40	.89000	862.00	.2500-01	.2050-01	.2980-01	.9130	.9175-03	.1332-02	.1900	1.211	534.4
56	125.40	.93000	863.00	.2330-01	.1910-01	.2770-01	.9130	.8553-03	.1240-02	.1780	1.139	533.8
56	125.40	.90000	864.00	.1590-01	.1150-01	.1660-01	.9130	.5838-03	.7603-03	.1080	.7890	531.8
56	125.40	.91000	865.00	.1420-01	.1170-01	.1690-01	.9130	.5217-03	.7574-03	.1080	.7890	534.5
56	125.40	.92000	866.00	.2330-01	.2740-01	.3950-01	.9130	.8524-03	.1273-02	.2550	1.616	533.3
56	129.30	.80000	866.00	.2630-01	.2080-01	.3010-01	.9130	.9290-03	.1345-02	.1910	1.219	533.3
56	129.30	.81000	867.00	.2430-01	.2000-01	.2890-01	.9130	.8852-03	.1295-02	.1870	1.179	532.7
56	129.30	.82000	868.00	.2520-01	.2150-01	.3120-01	.9130	.9533-03	.1394-02	.2010	1.269	533.1
56	129.30	.83000	869.00	.4091	.3179	.4023	.9589	.1422-01	.1800-01	2.368	15.01	575.5
56	135.00	.40000-01	870.00	.3940	.3088	.3953	.9494	.1382-01	.1769-01	2.368	14.95	570.5
56	135.00	.50000-01	871.00	.3465	.2672	.3548	.9461	.1196-01	.1587-01	1.939	12.66	579.8
56	135.00	.60000-01	872.00	.3887	.2989	.4067	.9429	.1328-01	.1820-01	2.086	13.92	584.9
56	135.00	.70000-01	873.00	.2162	.1722	.2354	.9340	.7703-02	.1053-01	1.404	9.152	559.7
56	135.00	.10000+00	875.00	.1123	.9020-01	.1298	.9223	.4037-02	.5809-02	.7630	5.565	553.0
56	135.00	.15000	876.00									

(IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F15)

RUN NUMBER	FHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
56	135.00	.20000	877.00	.5660-01	.4620-01	.6730-01	.9149	.2068-02	.3011-02	.4170	2.621	540.2
56	135.00	.35000	878.00	.3600-01	.2950-01	.4300-01	.9130	.1319-02	.1926-02	.2700	1.685	537.2
56	135.00	.40000	879.00	.3160-01	.2590-01	.3780-01	.9130	.1158-02	.1691-02	.2370	1.512	537.0
56	135.00	.50000	880.00	.2800-01	.2280-01	.3350-01	.9130	.1022-02	.1501-02	.2070	1.424	539.7
56	135.00	.55000	881.00	.2050-01	.1680-01	.2460-01	.9130	.7518-03	.1100-02	.1530	1.025	538.2
56	135.00	.60000	882.00	.2770-01	.2270-01	.3310-01	.9130	.1016-02	.1491-02	.2090	1.412	536.3
56	135.00	.65000	883.00	.2470-01	.2030-01	.2950-01	.9130	.9075-03	.1321-02	.1870	1.284	535.8
56	135.00	.70000	884.00	.2350-01	.1930-01	.2820-01	.9130	.8632-03	.1260-02	.1770	1.254	537.0
56	135.00	.75000	885.00	.1860-01	.1530-01	.2230-01	.9130	.6835-03	.9959-03	.1410	.9910	536.1
253	135.00	.80000	886.00	.9460-01	.6650-01	.1164	.9278	.3692-02	.6449-02	.9220	2.625	566.4
253	135.00	.84000	887.00	.7590-01	.5980-01	.9460-01	.9130	.2678-02	.4334-02	.0000	.0000	244.7
253	135.00	.85000	888.00	.1780-01	.1430-01	.2170-01	.9130	.6428-03	.9322-03	.1230	.7760	552.3
253	135.00	.87000	889.00	.1710-01	.1380-01	.2090-01	.9130	.6183-03	.9351-03	.1190	.7490	552.3
253	135.00	.88000	890.00	.1940-01	.1560-01	.2370-01	.9130	.6980-03	.1060-02	.1360	.8410	553.9
253	135.00	.89000	891.00	.1880-01	.1510-01	.2290-01	.9130	.6751-03	.1026-02	.1280	.8270	554.2
253	135.00	.91000	892.00	.5500-02	.4400-02	.6700-02	.9130	.1974-03	.2991-03	.3800-01	.2730	552.9
253	135.00	.92000	893.00	.8600-02	.6800-02	.1040-01	.9130	.3081-03	.4682-03	.5900-01	.4170	555.0
253	135.00	.95000	894.00	.2870-01	.2300-01	.3510-01	.9130	.1031-02	.1574-02	.1930	1.393	555.7
253	142.30	.42000	897.00	.2370-01	.1900-01	.2900-01	.9130	.1061-02	.1595-02	.2070	1.333	547.7
253	142.30	.43500	898.00	.2470-01	.2010-01	.3060-01	.9130	.1080-02	.1610-02	.2120	1.325	546.8
253	142.30	.45000	899.00	.2630-01	.2180-01	.3280-01	.9130	.9777-03	.1461-02	.1910	1.280	547.7
253	142.30	.80000	900.00	.2700-01	.2180-01	.3280-01	.9130	.9780-03	.1472-02	.1890	1.253	550.4
253	142.30	.83000	901.00	.2570-01	.2080-01	.3120-01	.9130	.9317-03	.1398-02	.1810	1.197	549.4
253	142.30	.84000	902.00	.2530-01	.2040-01	.3060-01	.9130	.9142-03	.1383-02	.1760	1.166	552.5
253	142.30	.85000	903.00	.2070-01	.1670-01	.2520-01	.9130	.7468-03	.1129-02	.1430	.9540	552.2
253	142.30	.87000	904.00	.1820-01	.1460-01	.2210-01	.9130	.6545-03	.9912-03	.1250	.8350	552.8
253	154.99	.42000	905.00	.3020-01	.2440-01	.3650-01	.9130	.1095-02	.1634-02	.2150	1.384	547.2
253	154.99	.43500	906.00	.2820-01	.2290-01	.3410-01	.9130	.1025-02	.1529-02	.2010	1.305	546.9
253	154.99	.45000	907.00	.2660-01	.2150-01	.3220-01	.9130	.9641-03	.1442-02	.1880	1.226	548.0
253	154.99	.80000	908.00	.2510-01	.2030-01	.3050-01	.9130	.9079-03	.1365-02	.1760	1.251	550.2
253	154.99	.83000	913.00	.2890-01	.2320-01	.3550-01	.9130	.1039-02	.1569-02	.1940	1.400	556.7
253	154.99	.84000	914.00	.3080-01	.2440-01	.3740-01	.9130	.1094-02	.1677-02	.2040	1.459	557.1
253	157.50	.70000-01	918.00	.3169	.2425	.3384	.9395	.1087-01	.1516-01	1.721	11.74	584.8
253	157.50	.80000-01	919.00	.2936	.2262	.3190	.9366	.1013-01	.1429-01	1.640	11.00	581.4
253	157.50	.10000+00	920.00	.1782	.1411	.1979	.9311	.6322-02	.8868-02	1.127	7.462	564.8
253	157.50	.20000	922.00	.3740-01	.3040-01	.4500-01	.9138	.1362-02	.2015-02	.2690	1.792	545.7
253	157.50	.42000	923.00	.2640-01	.2140-01	.3190-01	.9130	.9590-03	.1429-02	.1890	1.231	546.5
253	157.50	.43500	924.00	.2420-01	.1960-01	.2920-01	.9130	.8796-03	.1310-02	.1730	1.133	546.3
253	157.50	.45000	925.00	.2430-01	.1970-01	.2940-01	.9130	.8831-03	.1316-02	.1740	1.146	546.6
253	157.50	.85000	926.00	.1530-01	.1240-01	.1870-01	.9130	.5536-03	.8351-03	.1060	.6830	551.8
253	157.50	.86000	927.00	.1600-01	.1290-01	.1950-01	.9130	.5780-03	.8739-03	.1100	.7140	552.2
253	157.50	.87000	928.00	.1580-01	.1270-01	.1920-01	.9130	.5683-03	.8598-03	.1080	.7030	552.5
253	157.50	.88000	929.00	.1640-01	.1320-01	.2000-01	.9130	.5913-03	.8961-03	.1120	.7330	553.1

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F16)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
253	157.50	.89000	930.00	.1620-01	.1300-01	.1970-01	.9130	.5814-03	.8845-03	.1100	.7190	554.5
253	157.50	.90000	931.00	.1300-01	.1040-01	.1590-01	.9130	.4679-03	.7114-03	.8800-01	.5940	554.2
253	157.50	.91000	932.00	.6000-02	.4800-02	.7300-02	.9130	.2150-03	.3268-03	.4100-01	.2960	554.1
253	157.50	.92600	933.00	.1010-01	.8100-02	.1240-01	.9130	.3632-03	.5540-03	.6800-01	.4950	555.4
253	163.12	.41500	934.00	.2480-01	.2020-01	.2990-01	.9130	.9038-03	.1342-02	.1790	1.162	545.1
253	163.12	.42000	935.00	.2660-01	.2160-01	.3210-01	.9130	.9656-03	.1438-02	.1900	1.244	546.3
253	163.12	.43000	937.00	.2600-01	.2110-01	.3140-01	.9130	.9444-03	.1407-02	.1860	1.220	546.4
253	163.12	.44000	938.00	.2560-01	.2070-01	.3090-01	.9130	.9286-03	.1385-02	.1820	1.192	546.9
253	163.12	.44500	939.00	.2590-01	.2100-01	.3130-01	.9130	.9395-03	.1401-02	.1840	1.224	546.9
253	163.12	.45000	940.00	.2370-01	.1920-01	.2860-01	.9130	.8593-03	.1282-02	.1680	1.118	547.1
253	163.12	.50000	941.00	.2250-01	.1820-01	.2720-01	.9130	.8139-03	.1221-02	.1580	1.070	549.1
253	163.12	.60000	942.00	.2140-01	.1730-01	.2590-01	.9130	.7753-03	.1163-02	.1500	.9690	549.1
253	163.12	.70000	943.00	.1870-01	.1500-01	.2270-01	.9130	.6742-03	.1018-02	.1290	.8840	551.7
253	163.12	.80000	944.00	.1810-01	.1460-01	.2210-01	.9130	.6535-03	.9883-03	.1250	.8120	552.3
253	168.00	.35000	945.00	.1420-01	.1160-01	.1710-01	.9130	.5190-03	.7674-03	.1040	.6580	543.4
253	168.00	.36000	946.00	.1480-01	.1210-01	.1790-01	.9130	.5419-03	.8000-03	.1090	.6920	542.8
253	168.00	.37000	947.00	.1600-01	.1300-01	.1930-01	.9130	.5923-03	.8627-03	.1160	.7390	544.2
253	168.00	.37500	948.00	.1750-01	.1420-01	.2110-01	.9130	.6376-03	.9449-03	.1270	.8090	544.3
253	168.00	.38500	950.00	.1730-01	.1410-01	.2080-01	.9130	.6302-03	.9315-03	.1260	.8140	543.2
253	168.00	.39000	951.00	.1930-01	.1570-01	.2330-01	.9130	.7040-03	.1043-02	.1400	.9090	544.4
253	168.00	.39500	952.00	.1990-01	.1620-01	.2400-01	.9130	.7249-03	.1075-02	.1440	.9210	544.7
253	168.00	.40000	953.00	.2090-01	.1700-01	.2520-01	.9130	.7611-03	.1131-02	.1500	.9790	545.4
253	168.00	.40500	954.00	.2200-01	.1790-01	.2660-01	.9130	.8021-03	.1192-02	.1590	1.036	545.3
253	168.00	.41000	955.00	.2230-01	.1810-01	.2700-01	.9130	.8128-03	.1208-02	.1610	1.048	545.6
253	168.00	.41500	956.00	.2380-01	.1930-01	.2870-01	.9130	.8639-03	.1284-02	.1710	1.117	545.7
253	168.00	.42000	957.00	.2340-01	.1900-01	.2830-01	.9130	.8517-03	.1266-02	.1680	1.104	545.7
253	168.00	.42500	958.00	.2490-01	.2020-01	.3010-01	.9130	.9044-03	.1347-02	.1780	1.169	546.3
253	168.00	.43000	959.00	.2940-01	.2380-01	.3550-01	.9130	.1068-02	.1592-02	.2100	1.374	546.6
253	168.00	.44000	960.00	.2660-01	.2160-01	.3210-01	.9130	.9660-03	.1439-02	.1900	1.248	546.3
253	168.00	.44500	961.00	.2490-01	.2020-01	.3010-01	.9130	.9033-03	.1347-02	.1770	1.164	546.8
253	168.00	.45000	963.00	.2340-01	.1900-01	.2830-01	.9130	.8511-03	.1269-02	.1670	1.102	546.9
253	168.00	.45500	964.00	.2280-01	.1850-01	.2770-01	.9130	.8295-03	.1233-02	.1620	1.077	547.6
253	168.00	.47000	965.00	.2370-01	.1920-01	.2870-01	.9130	.8603-03	.1286-02	.1680	1.119	547.7
253	168.00	.48000	966.00	.2400-01	.1940-01	.2900-01	.9130	.8685-03	.1300-02	.1690	1.136	548.3
253	168.00	.49000	967.00	.2390-01	.1940-01	.2893-01	.9130	.8680-03	.1295-02	.1700	1.143	547.1
253	168.00	.85000	968.00	.1940-01	.1570-01	.2370-01	.9130	.7012-03	.1060-02	.1340	.9660	552.2
253	168.00	.86000	969.00	.1940-01	.1560-01	.2370-01	.9130	.7011-03	.1062-02	.1330	.9660	552.6
253	168.00	.87000	970.00	.1890-01	.1520-01	.2300-01	.9130	.6810-03	.1032-02	.1290	.8410	553.2
253	168.00	.88000	971.00	.1970-01	.1580-01	.2410-01	.9130	.7088-03	.1079-02	.1340	.8730	554.3
253	168.00	.89000	972.00	.1930-01	.1600-01	.2430-01	.9130	.7153-03	.1091-02	.1340	.8890	555.3
253	168.00	.90000	973.00	.1580-01	.1270-01	.1920-01	.9130	.5673-03	.8617-03	.1070	.7280	553.9
253	168.00	.91000	974.00	.8300-02	.6600-02	.1010-01	.9130	.2978-03	.4523-03	.5600-01	.4100	553.9
253	168.00	.92600	975.00	.1040-01	.8300-02	.1270-01	.9130	.3735-03	.5707-03	.7000-01	.5040	556.1

(RV7F15)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
253	168.00	.95000	976.00	.2610-01	.2090-01	.3200-01	.9130	.9370-03	.1435-02	.1750	1.250	556.9
253	180.00	.20000-01	982.00	.4030-01	.3290-01	.3990-01	.9523	.1472-02	.1786-02	.2970	2.073	541.2
253	180.00	.25000-01	983.00	.9440-01	.7650-01	.9430-01	.9503	.3428-02	.4223-02	.6720	4.642	547.1
253	180.00	.30000-01	984.00	.2058	.1621	.2072	.9487	.7261-02	.9286-02	1.269	8.622	568.3
253	209.80	.15000-01	697.00	.2561	.1852	.3071	.9283	.1024-01	.1698-01	.0000	.0000	539.9
55	209.80	.30000-01	698.00	.2000	.1600	.2026	.9475	.7165-02	.9071-02	1.330	9.001	557.5
55	209.80	.50000-01	699.00	.3732	.2945	.3885	.9426	.1319-01	.1740-01	2.324	14.62	566.9
55	209.80	.70000-01	700.00	.2546	.2021	.2740	.9363	.9050-02	.1227-01	1.631	10.94	562.9
55	209.80	.10000+00	701.00	.1625	.1303	.1822	.9282	.5836-02	.8157-02	1.095	6.950	555.5
55	209.80	.15000	702.00	.7140-01	.5790-01	.8390-01	.9181	.2594-02	.3757-02	.5100	3.648	546.6
55	209.80	.20000	703.00	.3000-01	.2460-01	.3570-01	.9131	.1100-02	.1600-02	.2270	1.520	536.7
55	209.80	.30000	704.00	.7500-02	.6100-02	.8900-02	.9130	.2743-03	.3981-03	.5700-01	.4070	535.1
55	209.80	.35000	705.00	.5900-02	.4800-02	.7000-02	.9130	.2164-03	.3136-03	.4500-01	.3110	534.5
55	209.80	.37500	706.00	.5000-02	.4100-02	.6000-02	.9130	.1847-03	.2673-03	.3900-01	.2670	533.9
55	209.80	.50000	707.00	.1970-01	.1620-01	.2360-01	.9130	.7240-03	.1056-02	.1490	1.024	537.5
55	209.80	.60000	708.00	.2060-01	.1700-01	.2460-01	.9130	.7591-03	.1103-02	.1580	1.010	535.6
55	209.80	.70000	709.00	.1940-01	.1590-01	.2320-01	.9130	.7122-03	.1037-02	.1470	.9420	536.7
55	209.80	.80000	710.00	.1940-01	.1600-01	.2310-01	.9130	.7149-03	.1036-02	.1490	.9340	534.7
55	209.80	.87000	711.00	.1970-01	.1620-01	.2350-01	.9130	.7247-03	.1054-02	.1500	.9520	536.4
55	209.80	.92600	712.00	.8000-02	.6600-02	.9600-02	.9130	.2957-03	.4297-03	.6100-01	.4480	535.8
55	217.70	.30000-01	714.00	.1916	.1532	.1940	.9476	.6861-02	.8687-02	1.272	8.606	557.7
55	217.70	.50000-01	715.00	.3589	.2833	.3734	.9427	.1269-01	.1672-01	2.240	14.47	566.6
55	217.70	.70000-01	716.00	.2861	.2247	.3091	.9364	.1006-01	.1384-01	1.742	11.75	570.0
55	217.70	.10000+00	717.00	.1587	.1273	.1778	.9282	.5702-02	.7962-02	1.072	6.923	555.1
55	217.70	.15000	718.00	.7150-01	.5800-01	.8390-01	.9181	.2597-02	.3759-02	.5110	3.741	546.3
55	217.70	.20000	719.00	.2940-01	.2410-01	.3510-01	.9131	.1081-02	.1570-02	.2240	1.520	535.7
55	217.70	.30000	720.00	.7200-02	.5900-02	.8600-02	.9130	.2655-03	.3852-03	.5500-01	.3970	535.1
55	217.70	.35000	721.00	.6500-02	.5400-02	.7800-02	.9130	.2402-03	.3476-03	.5000-01	.3500	534.0
55	217.70	.37500	722.00	.5000-02	.4100-02	.5900-02	.9130	.1838-03	.2659-03	.3800-01	.2680	533.9
55	217.70	.50000	723.00	.2230-01	.1830-01	.2560-01	.9130	.8175-03	.1189-02	.1690	1.175	536.2
55	217.70	.60000	724.00	.1890-01	.1550-01	.2250-01	.9130	.6941-03	.1008-02	.1440	.9260	535.6
55	217.70	.70000	725.00	.2130-01	.1750-01	.2540-01	.9130	.7841-03	.1139-02	.1630	1.040	535.6
55	217.70	.80000	726.00	.1910-01	.1570-01	.2280-01	.9130	.7044-03	.1021-02	.1470	.9290	534.5
55	217.70	.87000	727.00	.2250-01	.1850-01	.2680-01	.9130	.8279-03	.1202-02	.1720	1.105	535.5
55	217.70	.92600	728.00	.7200-02	.5900-02	.8600-02	.9130	.2641-03	.3833-03	.5500-01	.4010	535.2

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = 5.000 BETA = -6.000 GRIT = 3.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
307	2.500	4.837	5.030	6.000	-50.00	32.00	1.874	661.0	293.9	8.197	2100.	.5349-03
308	2.500	4.807	5.040	6.000	-50.00	31.90	1.864	662.0	294.2	8.157	2101.	.5318-03
309	2.500	4.823	5.030	6.000	-50.00	31.90	1.869	661.0	294.0	8.177	2100.	.5334-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
307	.2322-06	.6256-01	.6975-02
308	.2324-06	.6242-01	.6996-02
309	.2323-06	.6249-01	.6985-02

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
308	.00000	.30000-02	730.00	.5605	.3063	.3473	.9870	.1912-01	.2168-01	1.395	9.382	588.9
308	.00000	.10300-01	731.00	.4259	.2587	.4656	.9434	.1615-01	.2906-01	1.361	9.229	577.6
308	.00000	.15000-01	732.00	.4824	.2814	.5326	.9434	.1756-01	.3324-01	1.395	9.323	582.5
308	.00000	.20000-01	733.00	.6652	.3396	.3891	.9870	.2120-01	.2429-01	1.433	9.608	594.3
308	.00000	.25000-01	734.00	1.180	.4197	.5073	.9866	.2620-01	.3167-01	1.346	8.869	610.5
308	.00000	.30000-01	735.00	1.013	.4458	.5371	.9848	.2783-01	.3353-01	1.645	10.95	602.8
308	.00000	.40000-01	737.00	.6713	.3662	.4320	.9832	.2286-01	.2697-01	1.664	10.63	589.1
308	.00000	.45000-01	738.00	.7097	.3779	.4577	.9814	.2359-01	.2857-01	1.670	10.81	591.1
308	.00000	.60000-01	739.00	.7060	.3256	.4392	.9760	.2032-01	.2741-01	1.248	8.169	600.5
308	.00000	.70000-01	740.00	.7652	.3391	.4877	.9726	.2117-01	.3044-01	1.258	8.274	602.5
308	.00000	.80000-01	741.00	.6065	.2772	.4146	.9695	.1730-01	.2568-01	1.055	7.463	600.9
308	.00000	.10000+00	742.00	.4447	.2541	.3688	.9637	.1586-01	.2302-01	1.225	8.029	584.7
308	.00000	.12500	743.00	.3192	.1737	.2833	.9576	.1084-01	.1769-01	.7870	5.603	589.3
308	.00000	.15000	744.00	.2900	.1681	.2797	.9525	.1049-01	.1746-01	.8260	5.641	583.2
308	.00000	.17500	745.00	.2145	.1296	.2184	.9487	.8089-02	.1363-01	.6760	5.003	578.3
308	.00000	.20000	746.00	.1796	.1141	.1887	.9458	.7120-02	.1178-01	.6460	4.563	571.2
308	.00000	.21500	747.00	.1656	.1059	.1762	.9446	.6612-02	.1100-01	.6070	4.160	570.0
308	.00000	.23000	748.00	.1432	.9110-01	.1541	.9438	.5689-02	.9618-02	.5180	3.783	570.8

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F17)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
308	.00000	.24000	749.00	.1288	.8260-01	.1391	.9434	.5157-02	.8682-02	.4760	3.547	569.6
308	.00000	.25000	750.00	.7970-01	.5250-01	.8550-01	.9434	.3279-02	.5335-02	.3190	2.555	564.7
308	.00000	.30000	751.00	.1238	.8110-01	.1331	.9434	.5065-02	.8306-02	.4860	3.160	565.9
308	.00000	.40000	753.00	.1346	.8910-01	.1443	.9434	.5562-02	.9009-02	.5450	3.471	564.0
308	.00000	.50000	754.00	.1140	.7380-01	.1228	.9434	.4606-02	.7663-02	.4330	2.800	568.0
308	.00000	.60000	755.00	.1230	.8040-01	.1323	.9434	.5016-02	.8259-02	.4790	3.038	566.5
308	.00000	.70000	756.00	.1178	.7520-01	.1273	.9434	.4693-02	.7946-02	.4290	2.802	570.4
308	.00000	.80000	757.00	.1160	.7450-01	.1253	.9434	.4650-02	.7819-02	.4300	2.663	569.5
308	.00000	.90000	758.00	.7970-01	.5060-01	.8620-01	.9434	.3159-02	.5384-02	.2860	1.630	571.2
308	55.000	.22000	759.00	.1684	.1061	.1778	.9455	.6623-02	.1110-01	.5930	4.352	572.4
308	55.000	.25000	760.00	.9910-01	.6430-01	.1058	.9441	.4016-02	.6604-02	.3790	2.941	567.4
308	55.000	.27000	761.00	.1077	.6830-01	.1155	.9441	.4264-02	.7211-02	.3860	2.838	571.3
308	55.000	.30000	762.00	.1540	.1005	.1644	.9441	.6274-02	.1026-01	.5980	3.558	565.6
308	55.000	.32000	763.00	.1626	.1068	.1733	.9441	.6663-02	.1082-01	.6420	3.764	565.5
308	55.000	.34000	764.00	.1625	.1068	.1732	.9441	.6666-02	.1081-01	.6430	3.781	565.4
308	55.000	.36000	765.00	.1593	.1049	.1697	.9441	.6547-02	.1059-01	.6340	3.780	565.0
308	55.000	.38000	766.00	.1670	.1101	.1779	.9441	.6872-02	.1110-01	.6670	4.019	564.8
308	55.000	.40000	767.00	.1631	.1073	.1738	.9441	.6699-02	.1085-01	.6480	4.013	565.2
308	67.500	.23000	768.00	.1571	.9950-01	.1676	.9446	.6208-02	.1046-01	.5600	4.114	571.7
308	67.500	.25000	769.00	.9990-01	.6490-01	.1068	.9440	.4052-02	.6665-02	.3830	2.950	567.3
308	67.500	.27000	770.00	.1129	.7140-01	.1214	.9440	.4459-02	.7577-02	.4020	2.893	571.8
308	67.500	.29000	771.00	.9410-01	.6160-01	.1004	.9440	.3848-02	.6269-02	.3690	2.267	565.9
308	67.500	.30000	772.00	.1456	.9440-01	.1557	.9440	.5894-02	.9717-02	.5550	3.358	567.7
308	67.500	.31000	773.00	.1518	.9850-01	.1623	.9440	.6146-02	.1013-01	.5790	3.475	567.7
308	67.500	.32000	774.00	.1493	.9750-01	.1595	.9440	.6087-02	.9957-02	.5810	3.456	566.5
308	67.500	.32500	775.00	.1448	.9490-01	.1546	.9440	.5921-02	.9650-02	.5680	3.391	566.0
308	67.500	.33000	776.00	.1537	.1000+00	.1643	.9440	.6245-02	.1025-01	.5920	3.544	567.1
308	67.500	.33500	777.00	.1538	.1008	.1642	.9440	.6289-02	.1025-01	.6030	3.612	566.0
308	67.500	.34000	778.00	.1533	.1006	.1636	.9440	.6280-02	.1021-01	.6050	3.621	565.6
308	67.500	.34500	779.00	.1513	.9910-01	.1614	.9440	.6188-02	.1008-01	.5940	3.569	565.8
308	67.500	.35000	780.00	.1515	.9960-01	.1616	.9440	.6218-02	.1009-01	.6010	3.619	565.3
308	67.500	.36000	782.00	.1525	.1001	.1627	.9440	.6251-02	.1016-01	.6030	3.639	565.5
308	67.500	.36500	783.00	.1538	.1014	.1639	.9440	.6331-02	.1023-01	.6160	3.708	564.7
308	67.500	.37000	784.00	.1483	.9800-01	.1580	.9440	.6115-02	.9864-02	.5960	3.613	564.4
308	67.500	.37500	785.00	.1484	.9760-01	.1583	.9440	.6091-02	.9878-02	.5890	3.595	565.2
308	67.500	.38000	786.00	.1486	.9770-01	.1585	.9440	.6097-02	.9892-02	.5890	3.608	565.3
308	67.500	.39000	787.00	.1517	.9950-01	.1618	.9440	.6209-02	.1010-01	.5970	3.666	565.7
308	67.500	.40000	788.00	.1485	.9710-01	.1586	.9440	.6063-02	.9897-02	.5800	3.590	566.2
308	67.500	.50000	789.00	.1470	.9300-01	.1580	.9440	.5807-02	.9860-02	.5240	3.316	571.7
308	67.500	.60000	730.00	.1532	.9740-01	.1646	.9440	.6081-02	.1027-01	.5530	3.582	571.0
308	67.500	.70000	791.00	.1474	.8970-01	.1597	.9440	.5601-02	.9971-02	.4740	3.296	577.3
308	67.500	.80000	792.00	.1444	.8970-01	.1558	.9440	.5602-02	.9724-02	.4900	3.036	574.4
308	67.500	.90000	793.00	.8870-01	.5370-01	.9630-01	.9440	.3349-02	.6011-02	.2800	1.779	578.2

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F17)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
308	78.000	.27000	794.00	.1095	.6890-01	.1180	.9438	.4303-02	.7368-02	.3840	2.706	572.5
308	78.000	.29000	795.00	.1006	.6630-01	.1075	.9438	.4141-02	.6707-02	.4020	2.458	564.7
309	78.000	.30000	796.00	.1464	.9580-01	.1566	.9438	.5988-02	.9789-02	.5730	3.441	565.7
309	78.000	.31000	797.00	.1491	.9760-01	.1594	.9438	.6100-02	.9963-02	.5850	3.510	565.6
309	78.000	.32000	798.00	.1524	.1000+00	.1630	.9438	.6248-02	.1019-01	.6000	3.586	565.3
309	78.000	.32500	799.00	.1513	.9960-01	.1616	.9438	.6226-02	.1010-01	.6030	3.613	564.6
309	78.000	.33000	800.00	.1550	.1016	.1657	.9438	.6351-02	.1036-01	.6100	3.654	565.4
309	78.000	.33500	801.00	.1560	.1029	.1666	.9438	.6432-02	.1041-01	.6250	3.745	564.3
309	78.000	.34000	802.00	.1560	.1029	.1667	.9438	.6433-02	.1041-01	.6250	3.747	564.2
309	78.000	.34500	803.00	.1537	.1017	.1640	.9438	.6355-02	.1025-01	.6210	3.735	563.7
309	78.000	.35000	804.00	.1546	.1021	.1650	.9438	.6381-02	.1031-01	.6220	3.737	564.0
309	78.000	.35500	805.00	.1530	.1013	.1633	.9438	.6333-02	.1020-01	.6200	3.727	563.5
309	78.000	.36000	806.00	.1466	.9720-01	.1564	.9438	.6074-02	.9775-02	.5960	3.593	563.3
309	78.000	.36500	807.00	.1409	.9360-01	.1503	.9438	.5846-02	.9390-02	.5750	3.479	563.0
309	78.000	.37000	808.00	.1509	.9980-01	.1611	.9438	.6236-02	.1007-01	.6090	3.690	563.8
309	78.000	.37500	809.00	.1518	.1001	.1622	.9438	.6254-02	.1013-01	.6070	3.676	564.4
309	78.000	.38000	810.00	.1547	.1023	.1651	.9438	.6393-02	.1032-01	.6240	3.805	563.8
309	78.000	.39000	811.00	.1553	.1022	.1659	.9438	.6388-02	.1037-01	.6180	3.775	564.7
309	78.000	.40000	812.00	.1128	.7620-01	.1199	.9438	.4763-02	.7490-02	.4860	2.976	559.4
309	90.000	.20000	813.00	.2520-01	.1770-01	.2660-01	.9441	.1106-02	.1660-02	.1230	.8910	550.5
309	90.000	.24000	814.00	.1397	.8890-01	.1507	.9436	.5554-02	.9417-02	.5050	4.038	570.5
309	90.000	.27000	816.00	.1141	.7290-01	.1230	.9436	.4558-02	.7688-02	.4180	2.934	569.8
309	90.000	.29000	817.00	.1213	.8000-01	.1298	.9436	.5001-02	.8112-02	.4860	2.997	564.2
309	90.000	.30000	818.00	.1554	.1006	.1670	.9436	.6285-02	.1044-01	.5890	3.565	567.7
309	90.000	.31000	819.00	.1570	.1025	.1684	.9436	.6405-02	.1053-01	.6100	3.663	566.1
309	90.000	.32000	820.00	.1569	.1033	.1681	.9436	.6452-02	.1051-01	.6240	3.738	564.7
309	90.000	.32500	821.00	.1578	.1036	.1692	.9436	.6473-02	.1057-01	.6230	3.720	565.2
309	90.000	.33000	822.00	.1514	.1002	.1620	.9436	.6263-02	.1012-01	.6130	3.675	563.5
309	90.000	.34000	824.00	.1522	.1009	.1628	.9436	.6307-02	.1017-01	.6190	3.702	563.3
309	90.000	.34500	825.00	.1478	.9840-01	.1579	.9436	.6146-02	.9868-02	.6080	3.646	562.5
309	90.000	.35000	826.00	.1531	.1012	.1638	.9436	.6325-02	.1024-01	.6170	3.701	563.8
309	90.000	.36000	828.00	.1478	.9750-01	.1582	.9436	.6093-02	.9888-02	.5920	3.539	564.2
309	90.000	.36500	829.00	.1492	.9850-01	.1598	.9436	.6153-02	.9983-02	.5980	3.585	564.2
309	90.000	.37000	830.00	.1458	.9700-01	.1559	.9436	.6061-02	.9741-02	.5980	3.599	562.7
309	90.000	.37500	831.00	.1494	.9900-01	.1598	.9436	.6185-02	.9987-02	.6060	3.663	563.4
309	90.000	.38000	832.00	.1485	.9850-01	.1588	.9436	.6158-02	.9924-02	.6050	3.659	563.1
309	90.000	.39000	833.00	.1474	.9730-01	.1577	.9436	.6083-02	.9857-02	.5930	3.621	564.0
309	90.000	.40000	834.00	.1485	.9810-01	.1590	.9436	.6133-02	.9935-02	.5980	3.662	564.0
309	90.000	.50000	835.00	.1435	.9180-01	.1547	.9436	.5734-02	.9664-02	.5260	3.286	569.7
309	90.000	.60000	836.00	.1454	.9380-01	.1564	.9436	.5861-02	.9773-02	.5460	3.399	568.2
309	90.000	.70000	837.00	.1292	.8120-01	.1398	.9436	.5074-02	.8736-02	.4520	3.139	572.4
309	90.000	.80000	838.00	.1376	.8740-01	.1485	.9436	.5464-02	.9282-02	.4960	3.043	570.7
309	90.000	.90000	839.00	.8200-01	.5160-01	.8870-01	.9436	.3224-02	.5541-02	.2880	1.815	572.2

(RV7F17)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
309	112.50	.23000	840.00	.1285	.8370-01	.1382	.9435	.5229-02	.8637-02	.4960	3.955	566.7
309	112.50	.25000	841.00	.7640-01	.5100-01	.8200-01	.9432	.3188-02	.5123-02	.3170	2.440	561.9
309	112.50	.30000	843.00	.1285	.8530-01	.1380	.9432	.5328-02	.8622-02	.5240	3.092	563.1
309	112.50	.33000	844.00	.1343	.8960-01	.1441	.9432	.5597-02	.9005-02	.5560	3.325	562.1
309	112.50	.35000	845.00	.1300	.8700-01	.1394	.9432	.5438-02	.8712-02	.5440	3.307	561.5
309	112.50	.37000	846.00	.1299	.8670-01	.1394	.9432	.5415-02	.8709-02	.5380	3.291	562.1
309	112.50	.40000	847.00	.1241	.8340-01	.1330	.9432	.5209-02	.8311-02	.5240	3.245	560.8
309	112.50	.45000	848.00	.1269	.8470-01	.1361	.9432	.5296-02	.8507-02	.5270	3.287	561.9
309	112.50	.50000	849.00	.1212	.7910-01	.1306	.9432	.4942-02	.8163-02	.4710	2.996	566.2
309	112.50	.55000	850.00	.9460-01	.6240-01	.1017	.9432	.3897-02	.6356-02	.3790	2.507	564.3
309	112.50	.60000	851.00	.1236	.8130-01	.1331	.9432	.5081-02	.8316-02	.4910	3.259	564.8
309	112.50	.65000	852.00	.1205	.7880-01	.1299	.9432	.4925-02	.8117-02	.4710	3.171	565.9
309	112.50	.70000	853.00	.1101	.7090-01	.1191	.9432	.4429-02	.7439-02	.4110	2.855	568.6
309	112.50	.75000	854.00	.8230-01	.5350-01	.8880-01	.9432	.3341-02	.5547-02	.3160	2.027	566.9
309	112.50	.80000	855.00	.1039	.6770-01	.1121	.9432	.4229-02	.7004-02	.4010	2.583	566.6
309	112.50	.90000	856.00	.7130-01	.4500-01	.7700-01	.9432	.2872-02	.4814-02	.2680	1.717	568.3
309	125.40	.84000	857.00	.9390-01	.6240-01	.1010	.9430	.3898-02	.6310-02	.3840	2.354	562.9
309	125.40	.85000	858.00	.9630-01	.6360-01	.1037	.9430	.3974-02	.6479-02	.3870	2.386	564.0
309	125.40	.86000	859.00	.9410-01	.6190-01	.1014	.9430	.3870-02	.6336-02	.3750	2.326	564.6
309	125.40	.87000	860.00	.9510-01	.6290-01	.1024	.9430	.3929-02	.6398-02	.3830	2.389	563.8
309	125.40	.88000	861.00	.9320-01	.6120-01	.1004	.9430	.3826-02	.6277-02	.3690	2.299	565.0
309	125.40	.89000	862.00	.9770-01	.6420-01	.1053	.9430	.4009-02	.6581-02	.3870	2.421	565.0
309	125.40	.90000	863.00	.7760-01	.5090-01	.8370-01	.9430	.3182-02	.5230-02	.3060	1.927	565.3
309	125.40	.91000	864.00	.4700-01	.3150-01	.5040-01	.9430	.1971-02	.3149-02	.1990	1.434	560.7
309	125.40	.92600	865.00	.5420-01	.3530-01	.5860-01	.9430	.2207-02	.3660-02	.2090	1.503	566.5
309	129.30	.80000	866.00	.9170-01	.6130-01	.9840-01	.9430	.3833-02	.6151-02	.3830	2.390	561.5
309	129.30	.81000	867.00	.8570-01	.5730-01	.9200-01	.9430	.3581-02	.5751-02	.3580	2.219	561.6
309	129.30	.82000	868.00	.8570-01	.5730-01	.9200-01	.9430	.3582-02	.5751-02	.3580	2.220	561.5
309	129.30	.83000	869.00	.8010-01	.5350-01	.8600-01	.9430	.3341-02	.5375-02	.3330	2.070	561.8
309	135.00	.40000-01	870.00	.5662	.3170	.4042	.9755	.1981-01	.2526-01	1.488	9.380	586.3
309	135.00	.50000-01	871.00	.6851	.3734	.5009	.9720	.2333-01	.3130-01	1.696	10.62	588.7
309	135.00	.60000-01	872.00	.6733	.3218	.4776	.9688	.2011-01	.2984-01	1.274	8.248	598.1
309	135.00	.70000-01	873.00	.6969	.3250	.5126	.9657	.2031-01	.3203-01	1.259	8.341	599.5
309	135.00	.10000+00	875.00	.4169	.2391	.3734	.9578	.1494-01	.2334-01	1.158	7.461	583.9
309	135.00	.15000	876.00	.2629	.1521	.2681	.9487	.9505-02	.1675-01	.7460	5.361	582.9
309	135.00	.20000	877.00	.1710	.1099	.1832	.9440	.6865-02	.1145-01	.6350	4.233	569.0
309	135.00	.35000	878.00	.1174	.7890-01	.1259	.9430	.4932-02	.7870-02	.4980	3.075	560.4
309	135.00	.40000	879.00	.1094	.7370-01	.1174	.9430	.4604-02	.7337-02	.4660	2.934	560.2
309	135.00	.50000	880.00	.9180-01	.6100-01	.9880-01	.9430	.3811-02	.6176-02	.3750	2.556	563.0
309	135.00	.55000	881.00	.7730-01	.5200-01	.8300-01	.9430	.3247-02	.5184-02	.3280	2.167	560.5
309	135.00	.60000	882.00	.1039	.6930-01	.1118	.9430	.4329-02	.6984-02	.4290	2.864	562.2
309	135.00	.65000	883.00	.1000+00	.6700-01	.1075	.9430	.4185-02	.6715-02	.4190	2.836	561.4
309	135.00	.70000	884.00	.8900-01	.5880-01	.9590-01	.9430	.3676-02	.5990-02	.3590	2.528	563.9

ORIGINAL PAGE IS
OF POOR QUALITY

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F17)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
309	135.00	.75000	885.00	.7380-01	.4920-01	.7940-01	.9430	.3074-02	.4959-02	.3050	1.907	562.2
309	135.00	.80000	886.00	.8170-01	.5520-01	.8760-01	.9430	.3447-02	.5477-02	.3510	2.190	559.7
309	135.00	.84000	887.00	.7590-01	.5980-01	.9460-01	.9130	.2678-02	.4234-02	.0000	.0000	244.7
307	180.00	.40000-01	600.00	.4225	.2423	.3384	.9667	.1516-01	.2117-01	1.175	7.416	583.8
307	180.00	.50000-01	601.00	.5062	.2839	.4172	.9636	.1776-01	.2610-01	1.337	8.453	586.0
307	180.00	.60000-01	602.00	.5210	.2592	.4279	.9608	.1621-01	.2677-01	1.067	6.936	595.5
307	180.00	.70000-01	603.00	.6154	.2706	.5096	.9582	.1693-01	.3188-01	.9990	6.633	602.3
307	180.00	.80000-01	604.00	.4643	.2359	.4176	.9558	.1476-01	.2612-01	.9920	6.304	594.1
307	180.00	.90000-01	604.00	.2867	.1660	.2797	.9517	.1039-01	.1750-01	.8160	5.752	582.7
307	180.00	.10000+00	605.00	.1794	.1056	.1923	.9452	.6608-02	.1203-01	.5310	3.795	580.9
307	180.00	.15000	606.00	.1261	.8040-01	.1370	.9430	.5029-02	.8570-02	.4580	2.956	570.1
307	180.00	.20000	607.00	.1056	.6820-01	.1144	.9430	.4264-02	.7156-02	.3980	2.719	568.0
307	180.00	.21000	608.00	.9259-01	.5990-01	.1002	.9430	.3750-02	.6266-02	.3520	2.592	567.4
307	180.00	.22000	609.00	.7130-01	.4690-01	.7690-01	.9430	.2937-02	.4811-02	.2840	1.927	564.5
307	180.00	.30000	610.00	.6410-01	.4260-01	.6900-01	.9430	.2662-02	.4320-02	.2620	1.728	563.0
307	180.00	.35000	611.00	.7110-01	.4710-01	.7660-01	.9430	.2945-02	.4794-02	.2880	1.918	563.5
307	180.00	.36000	612.00	.7940-01	.5260-01	.8560-01	.9430	.3289-02	.5353-02	.3210	2.142	563.5
307	180.00	.37500	614.00	.7110-01	.4720-01	.7660-01	.9430	.2950-02	.4791-02	.2890	1.930	563.2
307	180.00	.38000	615.00	.7630-01	.5100-01	.8280-01	.9430	.3191-02	.5183-02	.3130	2.086	563.2
307	180.00	.38500	616.00	.7730-01	.5170-01	.8310-01	.9430	.3236-02	.5197-02	.3230	2.150	561.4
307	180.00	.39000	617.00	.7930-01	.5250-01	.8540-01	.9430	.3287-02	.5341-02	.3220	2.153	563.3
307	180.00	.39500	618.00	.7810-01	.5180-01	.8400-01	.9430	.3238-02	.5258-02	.3180	2.111	563.2
307	180.00	.40000	619.00	.8010-01	.5310-01	.8620-01	.9430	.3325-02	.5391-02	.3270	2.180	562.9
307	180.00	.40500	620.00	.8440-01	.5590-01	.9090-01	.9430	.3494-02	.5684-02	.3420	2.279	563.4
307	180.00	.41000	621.00	.8330-01	.5530-01	.8960-01	.9430	.3461-02	.5607-02	.3410	2.266	562.8
307	180.00	.41500	622.00	.8120-01	.5340-01	.8760-01	.9430	.3343-02	.5478-02	.3230	2.148	564.5
307	180.00	.42500	624.00	.7700-01	.5090-01	.8290-01	.9430	.3183-02	.5187-02	.3100	2.069	563.7
307	180.00	.43000	625.00	.7520-01	.4990-01	.8100-01	.9430	.3119-02	.5066-02	.3060	2.039	563.2
307	180.00	.44000	626.00	.7500-01	.4960-01	.8080-01	.9430	.3104-02	.5055-02	.3030	2.040	563.6
307	180.00	.44500	627.00	.7290-01	.4800-01	.7860-01	.9430	.3001-02	.4917-02	.2900	1.952	564 5
307	180.00	.45000	628.00	.7080-01	.4700-01	.7610-01	.9430	.2942-02	.4763-02	.2900	1.983	562.7
307	180.00	.45500	629.00	.7370-01	.4890-01	.7930-01	.9430	.3058-02	.4960-02	.3010	2.004	563.0
307	180.00	.46000	630.00	.7700-01	.5080-01	.8300-01	.9430	.3177-02	.5191-02	.3090	2.056	564.1
307	180.00	.47000	631.00	.7890-01	.5220-01	.8500 01	.9430	.3268-02	.5318-02	.3200	2.143	563.5
307	180.00	.48000	632.00	.7520-01	.4990-01	.8100-01	.9430	.3125-02	.5066-02	.3070	2.080	562.9
307	180.00	.49000	633.00	.6600-01	.4410-01	.7090-01	.9430	.2759-02	.4435-02	.2750	1.911	561.5
307	180.00	.50000	634.00	5850-01	.3890-01	.6290-01	.9430	.2436-02	.3933-02	.2410	1.589	562.3
307	180.00	.55000	635.00	.9000-01	.5280-01	.8630-01	.9430	.3302-02	.5398-02	.3210	2.049	564.2
307	180.00	.60000	636.00	.8310-01	.5490-01	.8960-01	.9430	.3433-02	.5603-02	.3340	2.142	564.0
307	180.00	.65000	637.00	.7540-01	.5070-01	.8230-01	.9430	.3170-02	.5149-02	.3110	2.111	563.2
307	180.00	.70000	638.00	.5620-01	.3760-01	.6040-01	.9430	.2354-02	.3778-02	.2360	1.508	561.3
307	180.00	.75000	639.00	.6160-01	.4110-01	.6630-01	.9430	.2573-02	.4145-02	.2560	1.591	561.9
307	180.00	.80000	640.00	.5730-01	.3800-01	.6170-01	.9430	.2375-02	.3860-02	.2330	1.458	563.3
307	180.00	.85000	641.00									

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F17)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
307	180.00	.86000	642.00	.5770-01	.3820-01	.6210-01	.9430	.2392-02	.3885-02	.2350	1.492	563.2
307	180.00	.87000	643.00	.5890-01	.3890-01	.6350-01	.9430	.2434-02	.3970-02	.2370	1.515	563.9
307	180.00	.88000	644.00	.5830-01	.3840-01	.6280-01	.9430	.2404-02	.3930-02	.2330	1.505	564.2
307	180.00	.89000	645.00	.5430-01	.3580-01	.5850-01	.9430	.2240-02	.3662-02	.2170	1.418	564.2
307	180.00	.90000	646.00	.3800-01	.2540-01	.4080-01	.9430	.1589-02	.2555-02	.1580	1.056	561.7
307	180.00	.95000	649.00	.6410-01	.4160-01	.6930-01	.9430	.2602-02	.4337-02	.2450	1.752	567.1
307	191.25	.35000	650.00	.7340-01	.4830-01	.7920-01	.9430	.3024-02	.4953-02	.2930	1.950	564.5
307	191.25	.36000	651.00	.7680-01	.5090-01	.8270-01	.9430	.3186-02	.5171-02	.3130	2.091	563.1
307	191.25	.37000	652.00	.7790-01	.5180-01	.8390-01	.9430	.3242-02	.5247-02	.3200	2.133	562.6
307	191.25	.37500	653.00	.5000-01	.3310-01	.5380-01	.9430	.2073-02	.3365-02	.2040	1.361	563.1
307	191.25	.38000	654.00	.7080-01	.4700-01	.7620-01	.9430	.2938-02	.4769-02	.2880	1.929	563.1
307	191.25	.38500	655.00	.7110-01	.4700-01	.7660-01	.9430	.2942-02	.4789-02	.2880	1.922	563.5
307	191.25	.39000	656.00	.7360-01	.4860-01	.7930-01	.9430	.3042-02	.4959-02	.2970	1.982	563.8
307	191.25	.39500	657.00	.7270-01	.4810-01	.7830-01	.9430	.3008-02	.4901-02	.2940	1.963	563.7
307	191.25	.40000	658.00	.7620-01	.5040-01	.8210-01	.9430	.3150-02	.5137-02	.3070	2.058	563.8
307	191.25	.41000	660.00	.7700-01	.5080-01	.8290-01	.9430	.3180-02	.5188-02	.3100	2.070	563.9
307	191.25	.41500	661.00	.7380-01	.4890-01	.7950-01	.9430	.3062-02	.4974-02	.3000	2.002	563.2
307	191.25	.42000	662.00	.7890-01	.5190-01	.8510-01	.9430	.3245-02	.5324-02	.3130	2.093	564.7
307	191.25	.42500	663.00	.7720-01	.5090-01	.8330-01	.9430	.3183-02	.5208-02	.3080	2.067	564.4
307	191.25	.43000	664.00	.7430-01	.4870-01	.8020-01	.9430	.3049-02	.5019-02	.2930	1.979	565.3
307	191.25	.44000	665.00	.7530-01	.4920-01	.8140-01	.9430	.3078-02	.5090-02	.2940	1.972	565.9
307	191.25	.45000	666.00	.7800-01	.5110-01	.8420-01	.9430	.3200-02	.5267-02	.3070	2.064	565.3
307	191.25	.45500	667.00	.7790-01	.5130-01	.8400-01	.9430	.3210-02	.5255-02	.3110	2 091	564.4
307	191.25	.46000	668.00	.8820-01	.5850-01	.9500-01	.9430	.3660-02	.5944-02	.3590	2.423	563.2
307	191.25	.47000	669.00	.7780-01	.5120-01	.8390-01	.9430	.3203-02	.5248-02	.3100	2.096	564.5
307	191.25	.48000	670.00	.8380-01	.5560-01	.9020-01	.9430	.3479-02	.5643-02	.3420	2.315	563.0
307	191.25	.49000	671.00	.8390-01	.5550-01	.9040-01	.9430	.3475-02	.5657-02	.3400	2.291	563.5
307	191.25	.50000	672.00	.7450-01	.4970-01	.9010-01	.9430	.3109-02	.5010-02	.3090	2.131	561.9
307	191.25	.60000	673.00	.8240-01	.5420-01	.8890-01	.9430	.3390-02	.5561-02	.3270	2.080	564.7
307	191.25	.70000	674.00	.6890-01	.4510-01	.7450-01	.9430	.2820-02	.4659-02	.2690	1.815	565.8
307	191.25	.85000	676.00	.5810-01	.3850-01	.6250-01	.9430	.2410-02	.3913-02	.2370	1.483	563.1
307	191.25	.86000	677.00	.5730-01	.3790-01	.6170-01	.9430	.2371-02	.3862-02	.2320	1.468	563.6
307	191.25	.87000	678.00	.5910-01	.3910-01	.6360-01	.9430	.2444-02	.3980-02	.2390	1.525	563.7
307	191.25	.88000	679.00	.5530-01	.3640-01	.5960-01	.9430	.2277-02	.3730-02	.2200	1.426	564.5
307	191.25	.89000	680.00	.5490-01	.3600-01	.5920-01	.9430	.2255-02	.3703-02	.2170	1.427	564.8
307	191.25	.90000	681.00	.4550-01	.3010-01	.4900-01	.9430	.1883-02	.3065-02	.1840	1.230	563.5
307	191.25	.91000	682.00	.2510-01	.1690-01	.2690-01	.9430	.1055-02	.1685-02	.1060	.7700	560.5
307	191.25	.92600	683.00	.3280-01	.2170-01	.3540-01	.9430	.1355-02	.2213-02	.1320	.9570	564.0
307	191.25	.95000	684.00	.6780-01	.4410-01	.7330-01	.9430	.2760-02	.4588-02	.2610	1.866	566.7
307	197.00	.33000	685.00	.7830-01	.5180-01	.8430-01	.9430	.3240-02	.5277-02	.3160	2.108	563.7
307	197.00	.34000	686.00	.7770-01	.5130-01	.8380-01	.9430	.3212-02	.5242-02	.3130	2.084	563.9
307	197.00	.35000	687.00	.8180-01	.5420-01	.8810-01	.9430	.3391-02	.5512-02	.3320	2.213	563.3
307	197.00	.36000	688.00	.7590-01	.5020-01	.8170-01	.9430	.3142-02	.5113-02	.3070	2.048	563.5

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F17)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
307	197.00	.37000	689.00	.6810-01	.4520-01	.7330-01	.9430	.2830-02	.4585-02	.2790	1.859	562.8
307	197.00	.37500	690.00	.6810-01	.4490-01	.7340-01	.9430	.2808-02	.4590-02	.2730	1.821	564.2
307	197.00	.50000	691.00	.8120-01	.5370-01	.8740-01	.9430	.3358-02	.5469-02	.3280	2.186	563.6
307	197.00	.60000	692.00	.8320-01	.5490-01	.8960-01	.9430	.3437-02	.5607-02	.3350	2.140	563.9
307	197.00	.70000	693.00	.6970-01	.4600-01	.7510-01	.9430	.2880-02	.4697-02	.2810	1.887	563.9
307	197.00	.80000	694.00	.6370-01	.4240-01	.6860-01	.9430	.2652-02	.4289-02	.2620	1.633	562.5
307	197.00	.87000	695.00	.6210-01	.4090-01	.6700-01	.9430	.2561-02	.4191-02	.2480	1.568	564.4
307	197.00	.92600	696.00	.3750-01	.2480-01	.4040-01	.9430	.1554-02	.2529-02	.1520	1.103	563.5
307	209.80	.15000-01	697.00	.2538	.1693	.2705	.9430	.9369-02	.1730-01	.8870	6.011	572.3
308	209.80	.30000-01	698.00	.3215	.1962	.3713	.9649	.1237-01	.1693-01	1.068	7.163	575.6
308	209.80	.50000-01	699.00	.3847	.2342	.3385	.9606	.1462-01	.2113-01	1.237	7.741	577.3
308	209.80	.70000-01	700.00	.4442	.2358	.4048	.9555	.1472-01	.2525-01	1.038	6.867	581.4
308	209.80	.10000+00	701.00	.2677	.1651	.2888	.9497	.1034-01	.1676-01	.8930	5.548	575.0
308	209.80	.15000	702.00	.1468	.8220-01	.1572	.9443	.5765-02	.9811-02	.5130	3.685	572.7
308	209.80	.20000	703.00	.1015	.6770-01	.1091	.9430	.4208-02	.6812-02	.4200	2.778	568.5
308	209.80	.30000	704.00	.6540-01	.4440-01	.7000-01	.9430	.2770-02	.4368-02	.2850	2.012	569.9
308	209.80	.37500	706.00	.6690-01	.4610-01	.7140-01	.9430	.2880-02	.4458-02	.3070	2.100	555.3
308	209.80	.50000	707.00	.6770-01	.4540-01	.7250-01	.9430	.2838-02	.4635-02	.2880	1.856	560.3
308	209.80	.60000	708.00	.7190-01	.4880-01	.7660-01	.9430	.3047-02	.4795-02	.3150	1.989	559.4
308	209.80	.70000	709.00	.4740-01	.3150-01	.5040-01	.9430	.1969-02	.3180-02	.1950	1.234	562.8
308	209.80	.80000	710.00	.5850-01	.3970-01	.6210-01	.9430	.2479-02	.3892-02	.2470	1.586	559.3
308	209.80	.87000	711.00	.7000-01	.4630-01	.7480-01	.9430	.2951-02	.4730-02	.2720	1.700	566.5
308	209.80	.92600	712.00	.3780-01	.2480-01	.4080-01	.9430	.1550-02	.2505-02	.1490	1.070	565.0
308	217.70	.15000-01	713.00	.2099	.1312	.2197	.9430	.8168-02	.1371-01	.7570	5.226	558.2
308	217.70	.30000-01	714.00	.1838	.1838	.2855	.9645	.1147-01	.1563-01	1.014	6.810	573.5
308	217.70	.50000-01	715.00	.3111	.1979	.2784	.9603	.1235-01	.1738-01	1.124	7.247	570.9
308	217.70	.70000-01	716.00	.3362	.1984	.3121	.9552	.1207-01	.1949-01	.9400	6.098	584.0
308	217.70	.10000+00	717.00	.2027	.1432	.2240	.9495	.8478-02	.1398-01	.9120	5.911	570.3
308	217.70	.15000	718.00	.1310	.8430-01	.1399	.9442	.5263-02	.8735-02	.4680	3.039	569.0
308	217.70	.20000	719.00	.1005	.6780-01	.1078	.9430	.4231-02	.6728-02	.4300	2.879	560.3
308	217.70	.30000	720.00	.6480-01	.4350-01	.6900-01	.9430	.2713-02	.4300-02	.2770	1.972	563.6
308	217.70	.37500	721.00	.7170-01	.5160-01	.7600-01	.9430	.3190-02	.4980-02	.3070	2.327	548.4
308	217.70	.50000	722.00	.7210-01	.4840-01	.7670-01	.9430	.3081-02	.4791-02	.3070	2.354	555.3
308	217.70	.60000	723.00	.7010-01	.4870-01	.6710-01	.9430	.2886-02	.4500-02	.2880	1.980	559.5
308	217.70	.70000	725.00	.6940-01	.4670-01	.6710-01	.9430	.2777-02	.4503-02	.2730	723	563.5
308	217.70	.80000	726.00	.6921-01	.4650-01	.7210-01	.9430	.3007-02	.4506-02	.3030	1.869	564.9
308	217.70	.87000	727.00	.6830-01	.4630-01	.8110-01	.9430	.3316-02	.4662-02	.3100	1.980	568.4
308	217.70	.92600	728.00	.4030-01	.2620-01	.4360-01	.9430	.1634-02	.2726-02	.1540	1.109	567.6

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = 5.000 BETA = -6.000 GRIT = 3.000 RN/L = 5.000

•••TEST CONDITIONS•••

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
283	3.510	4.848	5.030	6.000	-50.00	57.20	.7400	677.0	195.5	6.378	2405.	.3174-03
287	3.510	4.832	5.040	6.000	-50.00	57.00	.7370	677.0	195.6	6.358	2405.	.3163-03
289	3.510	4.819	5.040	6.000	-50.00	56.90	.7360	678.0	195.6	6.343	2405.	.3155-03
289	3.510	4.810	5.040	6.000	-50.00	56.80	.7340	677.0	195.6	6.330	2405.	.3149-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
283	.1574-06	.5544-01	.9237-02
287	.1574-06	.5535-01	.9252-02
289	.1575-06	.5523-01	.9265-02
289	.1574-06	.5523-01	.9273-02

•••TEST DATA•••

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
288	.00000	.30000-02	730.00	.4648	.3008	.3490	.9804	.1663-01	.1930-01	1.597	10.78	581.6
288	.00000	.10300-01	731.00	.2912	.2055	.3549	.9285	.1136-01	.1962-01	1.309	8.944	562.4
288	.00000	.15000-01	732.00	.3340	.2323	.4117	.9285	.1284-01	.2276-01	1.429	9.624	566.4
288	.00000	.20000-01	733.00	.5421	.3445	.4148	.9768	.1905-01	.2293-01	1.771	11.93	584.6
288	.00000	.25000-01	734.00	.7591	.4146	.5384	.9747	.2292-01	.2977-01	1.712	11.32	602.9
288	.00000	.30000-01	735.00	.6926	.4100	.5263	.9729	.2267-01	.2910-01	1.882	12.58	594.6
288	.00000	.40000-01	737.00	.4902	.3220	.4008	.9713	.1780-01	.2216-01	1.758	11.28	578.9
288	.00000	.45000-01	739.00	.4887	.3194	.4050	.9695	.1766-01	.2239-01	1.726	11.24	573.8
288	.00000	.60000-01	739.00	.4802	.2943	.4075	.9641	.1627-01	.2253-01	1.424	9.369	590.1
288	.00000	.70000-01	740.00	.5076	.2987	.4413	.9607	.1651-01	.2440-01	1.359	8.973	595.3
288	.00000	.80000-01	741.00	.3990	.2464	.3649	.9575	.1362-01	.2018-01	1.207	8.589	589.0
288	.00000	.10000+00	742.00	.3316	.2207	.3265	.9515	.1220-01	.1805-01	1.237	8.142	576.3
288	.00000	.12500	743.00	.2604	.1696	.2751	.9450	.9379-02	.1521-01	.9120	6.517	580.4
288	.00000	.15000	744.00	.2210	.1491	.2460	.9395	.8244-02	.1360-01	.8580	5.888	573.5
288	.00000	.17500	745.00	.1510	.1045	.1741	.9350	.5783-02	.9624-02	.6380	4.744	567.3
288	.00000	.20000	746.00	.1187	.8440-01	.1395	.9317	.4667-02	.7714-02	.5470	3.888	560.4

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F17)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
288	.00000	.21500	747.00	.1054	.7520-01	.1254	.9301	.4156-02	.6932-02	.4910	3.383	559.4
288	.00000	.23000	748.00	.9040-01	.6440-01	.1089	.9290	.3562-02	.6020-02	.4200	3.082	559.8
288	.00000	.24000	749.00	.7750-01	.5550-01	.9340-01	.9285	.3067-02	.5166-02	.3660	2.744	558.3
288	.00000	.25000	750.00	.4400-01	.3180-01	.5270-01	.9285	.1760-02	.2915-02	.2150	1.735	555.2
288	.00000	.30000	751.00	.8130-01	.5860-01	.9760-01	.9285	.3241-02	.5395-02	.3940	2.571	556.2
288	.00000	.40000	753.00	.8210-01	.5960-01	.9800-01	.9285	.3297-02	.5470-02	.4080	2.615	553.8
288	.00000	.50000	754.00	.7460-01	.5340-01	.8990-01	.9285	.2953-02	.4968-02	.3530	2.297	558.1
288	.00000	.60000	755.00	.7410-01	.5340-01	.8890-01	.9285	.2955-02	.4914-02	.3590	2.293	556.0
288	.00000	.70000	756.00	.7040-01	.5010-01	.8530-01	.9285	.2772-02	.4718-02	.3260	2.136	560.1
288	.00000	.80000	757.00	.6770-01	.4840-01	.8170-01	.9285	.2678-02	.4515-02	.3190	1.989	558.4
288	.00000	.90000	758.00	.5010-01	.3570-01	.6080-01	.9285	.1972-02	.3300-02	.2310	1.466	560.3
288	55.000	.22000	759.00	.1104	.7770-01	.1312	.9312	.4296-02	.7252-02	.4910	3.623	563.3
288	55.000	.25000	760.00	.6020-01	.4310-01	.7200-01	.9294	.2383-02	.3988-02	.2840	2.212	558.4
288	55.000	.27000	761.00	.6660-01	.4640-01	.7910-01	.9294	.2588-02	.4371-02	.3080	2.199	561.7
288	55.000	.30000	762.00	.9870-01	.7060-01	.1180	.9294	.3904-02	.6526-02	.4650	2.777	558.6
288	55.000	.32000	763.00	.1045	.7510-01	.1246	.9294	.4165-02	.6886-02	.5010	2.949	557.0
288	55.000	.34000	764.00	.1044	.7500-01	.1244	.9294	.4149-02	.6877-02	.5000	2.953	557.0
288	55.000	.36000	765.00	.1007	.7260-01	.1199	.9294	.4012-02	.6629-02	.4860	2.907	556.5
288	55.000	.38000	765.00	.9530-01	.6820-01	.1141	.9294	.3804-02	.6307-02	.4650	2.811	556.1
288	55.000	.40000	767.00	.9810-01	.7070-01	.1168	.9294	.3908-02	.6457-02	.4730	2.845	556.4
288	67.500	.28000	768.00	.1127	.7950-01	.1352	.9301	.4497-02	.7475-02	.5060	3.735	562.5
288	67.500	.30000	769.00	.8200-01	.4440-01	.7410-01	.9293	.2457-02	.4099-02	.2840	2.273	558.0
288	67.500	.32000	770.00	.7790-01	.5500-01	.9410-01	.9293	.3043-02	.5201-02	.3510	2.544	562.1
288	67.500	.34000	771.00	.6340-01	.4550-01	.7660-01	.9293	.2517-02	.4187-02	.3030	1.886	557.3
288	67.500	.36000	772.00	.9460-01	.6750-01	.1134	.9293	.3738-02	.6269-02	.4420	2.684	559.2
288	67.500	.38000	773.00	.9860-01	.7080-01	.1189	.9293	.3917-02	.6574-02	.4640	2.797	559.1
288	67.500	.32000	774.00	.1021	.7320-01	.1220	.9293	.4047-02	.6745-02	.4850	2.900	557.8
288	67.500	.32800	775.00	.9540-01	.6830-01	.1150	.9293	.3830-02	.6358-02	.4610	2.768	557.1
288	67.500	.33000	776.00	.9280-01	.6650-01	.1110	.9293	.3678-02	.6138-02	.4400	2.643	559.1
288	67.500	.33500	777.00	.9420-01	.6780-01	.1123	.9293	.3746-02	.6208-02	.4530	2.722	556.8
288	67.500	.34000	778.00	.9750-01	.7020-01	.1162	.9293	.3880-02	.6427-02	.4690	2.822	555.7
288	67.500	.34500	779.00	.9630-01	.6860-01	.1137	.9293	.3792-02	.6309-02	.4620	2.760	556.9
288	67.500	.35000	780.00	.9490-01	.6840-01	.1130	.9293	.3740-02	.6260-02	.4580	2.772	555.4
288	67.500	.35500	781.00	.9560-01	.6900-01	.1138	.9293	.3776-02	.6325-02	.4630	2.725	556.3
288	67.500	.36000	782.00	.9210-01	.6650-01	.1096	.9293	.3629-02	.6080-02	.4490	2.715	555.7
288	67.500	.37000	783.00	.8940-01	.6500-01	.1061	.9293	.3534-02	.5911-02	.4320	2.630	555.3
288	67.500	.37500	784.00	.8980-01	.6750-01	.1115	.9293	.3730-02	.6165-02	.4520	2.775	556.3
288	67.500	.38000	785.00	.8780-01	.6540-01	.1045	.9293	.3603-02	.5780-02	.4260	2.620	556.0
288	67.500	.38500	786.00	.8950-01	.6690-01	.1092	.9293	.3702-02	.6036-02	.4400	2.712	556.8
288	67.500	.39000	787.00	.9150-01	.6810-01	.1118	.9293	.3712-02	.6179-02	.4460	2.769	557.6
288	67.500	.40000	788.00	.9350-01	.6850-01	.1127	.9293	.3743-02	.6233-02	.4200	2.673	562.3
288	67.500	.60000	789.00	.8810-01	.6650-01	.1110	.9293	.3611-02	.6139-02	.4200	2.738	561.2
288	67.500	.70000	791.00	.8880-01	.6570-01	.1098	.9293	.3238-02	.5795-02	.3670	2.565	566.4

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F17)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
288	67.500	.80000	792.00	.9060-01	.6390-01	.1095	.9293	.3533-02	.6053-02	.4070	2.535	562.5
288	67.500	.90000	793.00	.5700-01	.3970-01	.6960-01	.9293	.2193-02	.3848-02	.2440	1.560	566.2
288	78.000	.27000	794.00	.7850-01	.5540-01	.9500-01	.9291	.3065-02	.5251-02	.3540	2.505	562.1
288	78.000	.29000	795.00	.6650-01	.4790-01	.7940-01	.9291	.2647-02	.4393-02	.3200	1.963	556.7
289	78.000	.30000	796.00	.9440-01	.6790-01	.1129	.9291	.3748-02	.6234-02	.4520	2.724	556.9
289	78.000	.31000	797.00	.9600-01	.6910-01	.1147	.9291	.3815-02	.6333-02	.4610	2.781	556.6
289	78.000	.32000	798.00	.9550-01	.6880-01	.1140	.9291	.3799-02	.6295-02	.4600	2.763	556.2
289	78.000	.32500	799.00	.9480-01	.6850-01	.1129	.9291	.3782-02	.6238-02	.4620	2.779	555.4
289	78.000	.33000	800.00	.9370-01	.6750-01	.1118	.9291	.3729-02	.6173-02	.4530	2.724	556.1
289	78.000	.33500	801.00	.9120-01	.6590-01	.1086	.9291	.3640-02	.5996-02	.4450	2.681	555.1
289	78.000	.34000	802.00	.8710-01	.6280-01	.1038	.9291	.3471-02	.5734-02	.4230	2.543	555.7
289	78.000	.34500	803.00	.8970-01	.6500-01	.1067	.9291	.3591-02	.5896-02	.4410	2.665	554.5
289	78.000	.35000	804.00	.9020-01	.6530-01	.1074	.9291	.3608-02	.5930-02	.4430	2.673	554.7
289	78.000	.35500	805.00	.9170-01	.6650-01	.1090	.9291	.3671-02	.6019-02	.4520	2.731	554.2
289	78.000	.36000	806.00	.1028	.7450-01	.1224	.9291	.4112-02	.6760-02	.5040	3.054	554.8
289	78.000	.36500	807.00	.9220-01	.6590-01	.1096	.9291	.3697-02	.6051-02	.4570	2.773	553.9
289	78.000	.37000	808.00	.8920-01	.6470-01	.1060	.9291	.3575-02	.5856-02	.4410	2.686	554.1
289	78.000	.37500	809.00	.8420-01	.6090-01	.1002	.9291	.3366-02	.5532-02	.4130	2.514	554.7
289	78.000	.38000	810.00	.8750-01	.6350-01	.1040	.9291	.3508-02	.5744-02	.4330	2.652	554.0
289	78.000	.38500	811.00	.9680-01	.7000-01	.1152	.9291	.3867-02	.6365-02	.4730	2.906	555.0
289	78.000	.39000	812.00	.7180-01	.5260-01	.8480-01	.9291	.2904-02	.4683-02	.3670	2.259	550.9
289	78.000	.40000	812.00	.4697	.3001	.3724	.9731	.1664-01	.2065-01	1.561	9.968	583.5
289	90.000	.40000-01	985.00	.4697	.3001	.3724	.9731	.1942-01	.2509-01	1.779	11.28	585.7
289	90.000	.50000-01	986.00	.5557	.3503	.4526	.9694	.1809-01	.2567-01	1.418	9.094	599.0
289	90.000	.60000-01	987.00	.5747	.3264	.4630	.9658	.1529-01	.2304-01	1.258	8.703	595.0
289	90.000	.80000-01	989.00	.4687	.2758	.4156	.9591	.8083-02	.1388-01	.7790	5.621	581.0
289	90.000	.10000	991.00	.2248	.1458	.2503	.9406	.6843-03	.1074-02	.9000-01	.6560	545.7
289	90.000	.20000	813.00	.1670-01	.1240-01	.1950-01	.9294	.3361-02	.5705-02	.3950	3.174	559.9
289	90.000	.24000	814.00	.8550-01	.6090-01	.1033	.9287	.2997-02	.5051-02	.3560	2.514	558.7
289	90.000	.26000	816.00	.7590-01	.5430-01	.9150-01	.9287	.2819-02	.4659-02	.3440	2.131	555.2
289	90.000	.27000	817.00	.7060-01	.5100-01	.8440-01	.9287	.4423-02	.7425-02	.5280	3.210	558.0
289	90.000	.28000	818.00	.1118	.8010-01	.1344	.9287	.3819-02	.6356-02	.4620	2.787	556.5
289	90.000	.29000	819.00	.9610-01	.6920-01	.1151	.9287	.3637-02	.6007-02	.4450	2.680	555.1
289	90.000	.30000	820.00	.9110-01	.6590-01	.1088	.9287	.3599-02	.5942-02	.4410	2.645	555.0
289	90.000	.32500	821.00	.9010-01	.6520-01	.1076	.9287	.3635-02	.5965-02	.4490	2.705	553.9
289	90.000	.33000	822.00	.9070-01	.6580-01	.1080	.9287	.3679-02	.6028-02	.4560	2.739	553.6
289	90.000	.34000	824.00	.9170-01	.6660-01	.1091	.9287	.3481-02	.5676-02	.4340	2.619	552.6
289	90.000	.34500	825.00	.8650-01	.6300-01	.1028	.9287	.3576-02	.5863-02	.4420	2.666	553.7
289	90.000	.35000	826.00	.8910-01	.6470-01	.1061	.9287	.3480-02	.5711-02	.4300	2.584	553.9
289	90.000	.36000	828.00	.8680-01	.6300-01	.1034	.9287	.3560-02	.5847-02	.4390	2.647	554.0
289	90.000	.36500	829.00	.8880-01	.6450-01	.1059	.9287	.3372-02	.5496-02	.4210	2.545	552.6
289	90.000	.37000	830.00	.8380-01	.6100-01	.9950-01	.9287	.3588-02	.5870-02	.4450	2.705	553.3
289	90.000	.37500	831.00	.8930-01	.6500-01	.1063	.9287	.3435-02	.5610-02	.4280	2.598	553.0
289	90.000	.38000	832.00	.8540-01	.6220-01	.1016	.9287					

ORIGINAL PAGE IS OF POOR QUALITY

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F17)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
289	90.000	.39000	833.00	.8580-01	.6230-01	.1022	.9287	.3444-02	.5645-02	.4260	2.618	553.7
289	90.000	.40000	834.00	.8570-01	.6230-01	.1021	.9287	.3439-02	.5640-02	.4250	2.620	552.7
289	90.000	.50000	835.00	.8350-01	.5950-01	.1007	.9287	.3284-02	.5563-02	.3870	2.439	559.6
289	90.000	.60000	836.00	.8370-01	.5990-01	.1006	.9287	.3310-02	.5558-02	.3950	2.618	558.1
289	90.000	.70000	837.00	.7640-01	.5390-01	.9290-01	.9287	.2978-02	.5130-02	.3430	2.393	562.4
289	90.000	.80000	838.00	.7960-01	.5680-01	.9800-01	.9287	.3139-02	.5305-02	.3710	2.291	559.2
289	90.000	.90000	839.00	.4960-01	.3510-01	.6020-01	.9287	.1939-02	.3327-02	.2240	1.424	561.7
289	112.50	.23000	840.00	.7800-01	.5630-01	.9360-01	.9285	.3108-02	.5167-02	.3780	3.029	555.0
289	112.50	.25000	841.00	.4240-01	.3100-01	.5060-01	.9281	.1710-02	.2797-02	.2140	1.655	552.2
289	112.50	.30000	843.00	.7530-01	.5470-01	.9010-01	.9281	.3021-02	.4975-02	.3740	2.219	553.5
289	112.50	.33000	844.00	.7900-01	.5760-01	.9440-01	.9281	.3181-02	.5214-02	.3970	2.388	552.6
289	112.50	.35000	845.00	.7720-01	.5640-01	.9200-01	.9281	.3117-02	.5073-02	.3930	2.402	551.4
289	112.50	.37000	846.00	.7620-01	.5570-01	.9090-01	.9281	.3077-02	.5019-02	.3870	2.381	551.6
289	112.50	.40000	847.00	.9190-01	.6730-01	.1094	.9281	.3720-02	.6041-02	.4710	2.931	550.7
289	112.50	.45000	848.00	.7060-01	.5170-01	.8420-01	.9281	.2853-02	.4649-02	.3600	2.254	551.4
289	112.50	.50000	849.00	.6790-01	.4900-01	.8170-01	.9281	.2705-02	.4514-02	.3280	2.102	556.0
289	112.50	.55000	850.00	.4820-01	.3490-01	.5780-01	.9281	.1927-02	.3195-02	.2360	1.573	554.8
289	112.50	.60000	851.00	.6770-01	.4900-01	.8120-01	.9281	.2708-02	.4487-02	.3320	2.219	554.7
289	112.50	.65000	852.00	.6870-01	.4960-01	.8260-01	.9281	.2739-02	.4562-02	.3340	2.259	555.7
289	112.50	.70000	853.00	.6110-01	.4370-01	.7410-01	.9281	.2411-02	.4091-02	.2850	1.994	558.9
289	112.50	.75000	854.00	.4570-01	.3280-01	.5520-01	.9281	.1813-02	.3050-02	.2180	1.405	557.4
289	112.50	.80000	855.00	.5890-01	.4240-01	.7090-01	.9281	.2343-02	.3918-02	.2840	1.838	556.3
289	112.50	.90000	856.00	.4000-01	.2870-01	.4840-01	.9281	.1583-02	.2670-02	.1930	1.220	557.9
289	125.40	.84000	857.00	.5130-01	.3730-01	.6150-01	.9279	.2059-02	.3396-02	.2560	1.574	553.3
289	125.40	.85000	858.00	.5290-01	.3830-01	.6350-01	.9279	.2117-02	.3507-02	.2610	1.616	554.2
289	125.40	.86000	859.00	.5260-01	.3810-01	.6330-01	.9279	.2104-02	.3495-02	.2590	1.612	554.7
289	125.40	.87000	860.00	.5070-01	.3670-01	.6100-01	.9279	.2029-02	.3368-02	.2490	1.561	554.6
289	125.40	.88000	861.00	.5090-01	.3680-01	.6140-01	.9279	.2031-02	.3392-02	.2470	1.546	555.7
289	125.40	.89000	862.00	.5230-01	.3780-01	.6310-01	.9279	.2086-02	.3485-02	.2540	1.586	555.8
289	125.40	.90000	863.00	.4530-01	.3270-01	.5470-01	.9279	.1805-02	.3023-02	.2190	1.364	556.2
289	125.40	.91000	864.00	.2770-01	.2020-01	.3320-01	.9279	.1115-02	.1831-02	.1390	1.009	552.6
289	125.40	.92000	865.00	.2950-01	.2120-01	.3570-01	.9279	.1171-02	.1973-02	.1410	1.014	557.3
289	129.30	.80000	866.00	.4690-01	.3410-01	.5540-01	.9279	.1881-02	.3113-02	.2320	1.454	554.0
289	129.30	.81000	867.00	.4650-01	.3390-01	.5570-01	.9279	.1871-02	.3075-02	.2340	1.456	552.6
289	129.30	.82000	868.00	.4650-01	.3390-01	.5660-01	.9279	.1874-02	.3073-02	.2350	1.463	552.2
289	129.30	.83000	869.00	.4410-01	.3220-01	.5260-01	.9279	.1777-02	.2919-02	.2220	1.387	552.5
289	135.00	.40000-01	870.00	.4392	.2919	.3862	.9536	.1612-01	.2133-01	1.628	10.31	576.5
289	135.00	.50000-01	871.00	.4852	.3224	.4403	.9601	.1781-01	.2432-01	1.798	11.32	578.5
289	135.00	.60000-01	872.00	.4115	.2691	.3811	.9568	.1431-01	.2105-01	1.309	8.524	586.0
289	135.00	.70000-01	873.00	.4813	.2881	.4591	.9536	.1691-01	.2535-01	1.343	8.929	593.0
289	135.00	.10000+00	875.00	.2824	.1907	.2958	.9453	.1053-01	.1634-01	1.059	7.118	573.1
289	135.00	.15000	876.00	.1748	.1200	.2024	.9351	.6627-02	.1116-01	.7160	5.179	569.4
289	135.00	.20000	877.00	.1042	.7490-01	.1244	.9293	.4137-02	.6871-02	.4380	3.238	557.1

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F17)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
289	135.00	.35000	878.00	.6540-01	.4810-01	.7790-01	.9278	.2657-02	.4301-02	.3400	2.110	549.5
289	135.00	.40000	879.00	.6450-01	.4750-01	.7670-01	.9278	.2621-02	.4236-02	.3360	2.129	549.1
289	135.00	.50000	880.00	.4830-01	.3520-01	.5790-01	.9278	.1947-02	.3197-02	.2430	1.667	552.4
289	135.00	.55000	881.00	.4120-01	.3020-01	.4920-01	.9278	.1657-02	.2717-02	.2110	1.403	550.8
289	135.00	.60000	882.00	.5310-01	.3880-01	.6360-01	.9278	.2144-02	.3511-02	.2690	1.805	551.9
289	135.00	.65000	883.00	.5010-01	.3670-01	.5980-01	.9278	.2025-02	.3303-02	.2550	1.742	551.1
289	135.00	.70000	884.00	.4710-01	.3410-01	.5670-01	.9278	.1884-02	.3129-02	.2320	1.639	554.6
289	135.00	.75000	885.00	.4110-01	.2990-01	.4930-01	.9278	.1649-02	.2721-02	.2050	1.286	553.3
289	135.00	.80000	886.00	.4530-01	.3320-01	.5410-01	.9278	.1832-02	.2986-02	.2320	1.453	550.9
289	135.00	.84000	887.00	.7590-01	.5980-01	.9460-01	.9130	.2678-02	.4234-02	.0000	.0000	244.7
283	135.00	.85000	888.00	.4400-01	.3160-01	.5320-01	.9278	.1752-02	.2953-02	.2110	1.328	557.1
283	135.00	.87000	890.00	.4060-01	.2910-01	.4930-01	.9278	.1611-02	.2732-02	.1920	1.213	558.2
283	135.00	.88000	891.00	.4220-01	.3010-01	.5140-01	.9278	.1670-02	.2851-02	.1970	1.252	559.3
283	135.00	.89000	892.00	.3830-01	.2730-01	.4670-01	.9278	.1513-02	.2589-02	.1780	1.150	559.7
283	135.00	.91000	894.00	.1850-01	.1330-01	.2240-01	.9278	.7349-03	.1239-02	.8800-01	.6410	557.2
283	135.00	.92600	895.00	.2740-01	.1950-01	.3340-01	.9278	.1081-02	.1853-02	.1270	.9160	560.0
283	135.00	.95000	896.00	.5830-01	.4130-01	.7130-01	.9278	.2292-02	.3952-02	.2670	1.913	560.9
283	142.30	.42000	897.00	.5360-01	.3860-01	.6470-01	.9278	.2141-02	.3589-02	.2590	1.661	556.1
283	142.30	.43500	898.00	.5030-01	.3640-01	.6060-01	.9278	.2017-02	.3361-02	.2470	1.536	555.0
283	142.30	.45000	899.00	.5000-01	.3610-01	.6030-01	.9278	.2002-02	.3342-02	.2440	1.590	555.4
283	142.30	.50000	900.00	.4970-01	.3570-01	.6020-01	.9278	.1982-02	.3339-02	.2390	1.531	557.0
283	142.30	.60000	901.00	.4170-01	.3010-01	.5030-01	.9278	.1669-02	.2791-02	.2030	1.342	555.7
283	142.30	.70000	902.00	.4570-01	.3280-01	.5550-01	.9278	.1816-02	.3075-02	.2180	1.476	557.7
283	142.30	.80000	903.00	.4320-01	.3110-01	.5220-01	.9278	.1726-02	.2895-02	.2090	1.321	556.3
283	142.30	.87000	904.00	.3820-01	.2730-01	.4640-01	.9278	.1515-02	.2574-02	.1800	1.132	550.4
283	154.98	.42000	905.00	.5140-01	.3710-01	.6190-01	.9278	.2057-02	.3433-02	.2510	1.612	555.3
283	154.98	.43500	906.00	.4790-01	.3470-01	.5770-01	.9278	.1921-02	.3200-02	.2350	1.519	555.0
283	154.98	.45000	907.00	.4630-01	.3350-01	.5580-01	.9278	.1855-02	.3095-02	.2260	1.471	555.2
283	154.98	.50000	908.00	.4290-01	.3080-01	.5180-01	.9278	.1710-02	.2872-02	.2070	1.472	556.4
283	154.98	.93500	913.00	.7630-01	.5400-01	.9350-01	.9278	.2091-02	.5181-02	.3460	2.497	561.6
283	154.98	.94500	914.00	.5630-01	.3990-01	.6890-01	.9278	.2212-02	.3822-02	.2570	1.836	561.2
283	157.50	.70000-01	918.00	.4206	.2378	.4260	.9492	.1318-01	.2361-01	1.027	6.954	559.4
283	157.50	.80000-01	919.00	.3235	.2070	.3371	.9464	.1147-01	.1869-01	.8079	7.228	583.3
283	157.50	.10000+00	920.00	.2231	.1513	.2426	.9415	.8390-02	.1345-01	.6840	5.829	572.0
283	157.50	.20000	922.00	.7970-01	.5690-01	.9630-01	.9283	.3157-02	.5340-02	.3750	2.481	558.6
283	157.50	.42000	923.00	.4720-01	.3420-01	.5680-01	.9278	.1897-02	.3146-02	.2340	1.519	554.2
283	157.50	.43500	924.00	.4420-01	.3210-01	.5300-01	.9278	.1778-02	.2941-02	.2200	1.434	553.7
283	157.50	.45000	925.00	.4390-01	.3180-01	.5270-01	.9278	.1765-02	.2923-02	.2180	1.432	553.9
283	157.50	.85000	926.00	.2580-01	.1860-01	.3120-01	.9278	.1032-02	.1730-02	.1250	.8050	556.1
283	157.50	.86000	927.00	.2430-01	.1750-01	.2940-01	.9278	.9713-03	.1631-02	.1170	.7580	556.4
283	157.50	.87000	928.00	.2450-01	.1770-01	.2960-01	.9278	.9787-03	.1643-02	.1180	.7660	556.4
283	157.50	.88000	929.00	.2700-01	.1940-01	.3260-01	.9278	.1074-02	.1810-02	.1290	.8400	557.1
283	157.50	.89000	930.00	.2780-01	.1980-01	.3370-01	.9278	.1100-02	.1870-02	.1300	.8540	558.7

DATE 03 JUN 76 AEDC V-1A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F17)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
283	157.50	.90000	931.00	.2530-01	.1810-01	.3070-01	.9278	.1006-02	.1702-02	.1200	.8060	557.8
283	157.50	.91000	932.00	.2340-01	.1680-01	.2840-01	.9278	.9341-03	.1574-02	.1120	.8180	557.0
283	157.50	.92600	933.00	.5450-01	.3880-01	.6640-01	.9278	.2153-02	.3682-02	.2540	1.838	559.5
283	163.12	.41500	934.00	.4580-01	.3340-01	.5490-01	.9278	.1854-02	.3042-02	.2320	1.501	552.1
283	163.12	.42000	935.00	.4700-01	.3420-01	.5640-01	.9278	.1897-02	.3129-02	.2360	1.538	553.1
283	163.12	.43000	937.00	.4460-01	.3240-01	.5360-01	.9278	.1797-02	.2972-02	.2220	1.454	553.6
283	163.12	.44000	938.00	.4410-01	.3200-01	.5300-01	.9278	.1775-02	.2938-02	.2190	1.430	553.8
283	163.12	.44500	939.00	.4430-01	.3210-01	.5320-01	.9278	.1782-02	.2951-02	.2200	1.455	553.9
283	163.12	.45000	940.00	.4200-01	.3050-01	.5050-01	.9278	.1692-02	.2799-02	.2090	1.384	553.7
283	163.12	.50000	941.00	.3940-01	.2850-01	.4740-01	.9278	.1582-02	.2626-02	.1950	1.314	554.3
283	163.12	.70000	943.00	.3170-01	.2300-01	.3820-01	.9278	.1273-02	.2116-02	.1560	1.069	554.5
283	163.12	.80000	944.00	.2960-01	.2140-01	.3570-01	.9278	.1185-02	.1980-02	.1440	.9370	555.6
283	168.00	.35000	945.00	.4400-01	.3210-01	.5270-01	.9278	.1778-02	.2922-02	.2220	1.403	552.5
283	168.00	.36000	946.00	.4420-01	.3230-01	.5280-01	.9278	.1788-02	.2926-02	.2230	1.426	551.6
283	168.00	.37500	948.00	.4500-01	.3270-01	.5390-01	.9278	.1816-02	.2990-02	.2260	1.437	552.8
283	168.00	.38500	950.00	.3890-01	.2850-01	.4640-01	.9278	.1580-02	.2573-02	.2000	1.289	550.6
283	168.00	.39000	951.00	.4050-01	.2960-01	.4850-01	.9278	.1640-02	.2691-02	.2050	1.327	552.2
283	168.00	.39500	952.00	.4090-01	.2980-01	.4890-01	.9278	.1652-02	.2712-02	.2070	1.318	552.2
283	168.00	.40000	953.00	.4190-01	.3050-01	.5020-01	.9278	.1691-02	.2785-02	.2110	1.366	552.8
283	168.00	.40500	954.00	.4400-01	.3200-01	.5270-01	.9278	.1774-02	.2923-02	.2210	1.436	552.9
283	168.00	.41000	955.00	.4280-01	.3120-01	.5130-01	.9278	.1728-02	.2847-02	.2150	1.399	552.9
283	168.00	.41500	956.00	.4300-01	.3130-01	.5150-01	.9278	.1735-02	.2855-02	.2160	1.411	552.7
283	168.00	.42000	957.00	.4250-01	.3100-01	.5080-01	.9278	.1717-02	.2819-02	.2150	1.405	552.2
283	169.00	.42500	958.00	.4380-01	.3190-01	.5240-01	.9278	.1766-02	.2908-02	.2200	1.440	552.7
283	168.00	.43000	959.00	.4480-01	.3260-01	.5370-01	.9278	.1809-02	.2975-02	.2260	1.472	552.6
283	168.00	.44000	960.00	.4320-01	.3150-01	.5170-01	.9278	.1746-02	.2867-02	.2180	1.429	552.2
283	168.00	.44500	961.00	.4190-01	.3060-01	.5040-01	.9278	.1690-02	.2792-02	.2090	1.370	553.4
283	168.00	.45500	963.00	.4070-01	.2960-01	.4880-01	.9278	.1642-02	.2707-02	.2040	1.343	553.0
283	168.00	.46000	964.00	.4080-01	.2960-01	.4900-01	.9278	.1641-02	.2714-02	.2030	1.343	553.7
283	168.00	.47000	965.00	.4130-01	.3000-01	.4950-01	.9278	.1663-02	.2747-02	.2060	1.368	553.4
283	168.00	.48000	966.00	.4170-01	.3030-01	.5020-01	.9278	.1677-02	.2782-02	.2070	1.383	554.2
283	168.00	.49000	967.00	.3460-01	.2520-01	.4140-01	.9278	.1393-02	.2297-02	.1750	1.174	552 1
283	168 00	.85000	968.00	.3960-01	.2860-01	.4780-01	.9278	.1584-02	.2648-02	.1930	1.245	555.6
283	168.00	.86000	969.00	.4080-01	.2940-01	.4930-01	.9278	.1628-02	.2732-02	.1970	1.276	556.3
283	168.00	.87000	970.00	.4100-01	.2950-01	.4960-01	.9278	.1636-02	.2750-02	.1970	1.282	556.6
283	168.00	.88000	971.00	.4060-01	.2910-01	.4930-01	.9278	.1615-02	.2732-02	.1930	1.257	557.7
283	168.00	.89000	972.00	.3930-01	.2740-01	.4660-01	.9278	.1518-02	.2581-02	.1800	1.189	558.6
283	168.00	.90000	973.00	.3370-01	.2420-01	.4080-01	.9278	.1344-02	.2264-02	.1620	1.094	557.0
283	168.00	.91000	974.00	.2250-01	.1620-01	.2730-01	.9278	.8982-03	.1511-02	.1080	.7860	556.7
283	168.00	.92600	975.00	.4400-01	.3130-01	.5360-01	.9278	.1736-02	.2970-02	.2040	1.472	559.6
283	168.00	.95000	976.00	.4940-01	.3500-01	.6040-01	.9278	.1943-02	.3350-02	.2260	1.617	560.9
283	180.00	.20000-01	982.00	.1825	.1292	.1691	.9596	.7165-02	.9375-02	.8320	5.742	561.2
283	180.00	.25000-01	983.00	.2529	.1782	.2450	.9577	.9881-02	.1359-01	1.040	7.09.	572.1

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F17)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
283	180.00	.30000-01	984.00	.3515	.2245	.3289	.9561	.1245-01	.1824-01	1.167	7.865	583.6
287	180.00	.40000-01	600.00	.3613	.2383	.3448	.9546	.1319-01	.1908-01	1.312	8.306	577.9
287	180.00	.50000-01	601.00	.3997	.2623	.3939	.9514	.1452-01	.2180-01	1.431	9.079	578.9
287	180.00	.60000-01	602.00	.3663	.2287	.3734	.9484	.1266-01	.2067-01	1.142	7.452	587.2
287	180.00	.70000-01	603.00	.3983	.2345	.4243	.9456	.1298-01	.2349-01	1.069	7.123	595.0
287	180.00	.80000-01	604.00	.3129	.1992	.3399	.9431	.1102-01	.1882-01	1.027	6.558	584.2
287	180.00	.10000+00	605.00	.1907	.1295	.2139	.9386	.7167-02	.1184-01	.7560	5.358	571.9
287	180.00	.15000	606.00	.1077	.7400-01	.1304	.9309	.4098-02	.7218-02	.4440	3.193	569.1
287	180.00	.20000	607.00	.6250-01	.4470-01	.7590-01	.9279	.2477-02	.4200-02	.2950	1.912	558.4
287	180.00	.21000	608.00	.5300-01	.3810-01	.6410-01	.9278	.2110-02	.3548-02	.2550	1.751	556.7
287	180.00	.22000	609.00	.4190-01	.3020-01	.5060-01	.9278	.1673-02	.2803-02	.2030	1.503	556.1
287	180.00	.30000	610.00	.4360-01	.3160-01	.5250-01	.9278	.1747-02	.2906-02	.2140	1.461	554.7
287	180.00	.35000	611.00	.3830-01	.2790-01	.4590-01	.9278	.1543-02	.2541-02	.1920	1.275	552.9
287	180.00	.36000	612.00	.3840-01	.2800-01	.4610-01	.9278	.1549-02	.2551-02	.1930	1.293	552.9
287	180.00	.37500	614.00	.4090-01	.2970-01	.4900-01	.9278	.1645-02	.2714-02	.2040	1.369	553.2
287	180.00	.38000	615.00	.3730-01	.2710-01	.4470-01	.9278	.1501-02	.2473-02	.1870	1.252	552.9
287	180.00	.38500	616.00	.4060-01	.2950-01	.4860-01	.9278	.1634-02	.2693-02	.2030	1.362	553.0
287	180.00	.39000	617.00	.4000-01	.2920-01	.4780-01	.9278	.1615-02	.2646-02	.2030	1.355	551.9
287	180.00	.39500	618.00	.4050-01	.2950-01	.4850-01	.9278	.1636-02	.2685-02	.2050	1.376	552.2
287	180.00	.40000	619.00	.4390-01	.3200-01	.5250-01	.9278	.1771-02	.2906-02	.2220	1.481	552.2
287	180.00	.40500	620.00	.4320-01	.3150-01	.5180-01	.9278	.1744-02	.2867-02	.2180	1.459	552.6
287	180.00	.41000	621.00	.4630-01	.3370-01	.5540-01	.9278	.1864-02	.3069-02	.2320	1.558	552.8
287	180.00	.41500	622.00	.3600-02	.2700-02	.4200-02	.9278	.1499-03	.2345-03	.2000-01	.1370	541.7
287	180.00	.42500	624.00	.4130-01	.3000-01	.4960-01	.9278	.1662-02	.2747-02	.2060	1.373	553.6
287	180.00	.43000	625.00	.3840-01	.2790-01	.4600-01	.9278	.1546-02	.2545-02	.1930	1.290	552.8
287	180.00	.44000	626.00	.3750-01	.2730-01	.4490-01	.9278	.1513-02	.2487-02	.1890	1.267	552.5
287	180.00	.44500	627.00	.3720-01	.2710-01	.4460-01	.9278	.1500-02	.2471-02	.1870	1.263	552.9
287	180.00	.45000	628.00	.3750-01	.2730-01	.4510-01	.9278	.1510-02	.2495-02	.1870	1.265	553.5
287	180.00	45500	629.00	.3610-01	.2630-01	.4320-01	.9278	.1457-02	.2391-02	.1820	1.253	552.2
287	180.00	.46000	630.00	.3530-01	.2570-01	.4220-01	.9278	.1424-02	.2337-02	.1780	1.195	552.2
287	180.00	.47000	631.00	.3800-01	.2760-01	.4560-01	.9278	.1530-02	.2525-02	.1900	1.273	553.2
287	180.00	.48000	632.00	.3670-01	.2670-01	.4400-01	.9278	.1478-02	.2434-02	.1840	1.240	552.9
287	180.00	.49000	633.00	.3560-01	.2590-01	.4260-01	.9278	.1433-02	.2360-02	.1790	1.215	552.8
287	180.00	.50000	634.00	.3050-01	.2230-01	.3640-01	.9278	.1232-02	.2016-02	.1550	1.081	551.7
287	180.00	.55000	635.00	.2950-01	.2140-01	.3540-01	.9278	.1185-02	.1960-02	.1470	.9710	553.7
287	180.00	.60000	636.00	.3920-01	.2850-01	.4710-01	.9278	.1575-02	.2605-02	.1950	1.252	553.7
287	180.00	.65000	637.00	.4150-01	.3010-01	.4990-01	.9278	.1668-02	.2763-02	.2060	1.327	554.0
287	180.00	.70000	638.00	.3790-01	.2740-01	.4560-01	.9278	.1517-02	.2525-02	.1860	1.267	554.9
287	180.00	.75000	639.00	.3300-01	.2390-01	.3970-01	.9278	.1325-02	.2199-02	.1630	1.047	554.4
287	180.00	.80000	640.00	.3610-01	.2620-01	.4340-01	.9278	.1453-02	.2401-02	.1800	1.123	553.6
287	180.00	.85000	641.00	.3010-01	.2170-01	.3630-01	.9278	.1203-02	.2007-02	.1470	.9240	555.3
287	180.00	.86000	642.00	.3020-01	.2180-01	.3640-01	.9278	.1206-02	.2016-02	.1470	.9370	555.7
297	180.00	.87000	643.00	.3220-01	.2320-01	.3890-01	.9278	.1282-02	.2154-02	.1550	.9950	556.5

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
287	180.00	.88000	644.00	.3470-01	.2500-01	.4200-01	.9278	.1382-02	.2328-02	.1660	1.077	557.0
287	180.00	.89000	645.00	.2940-01	.2110-01	.3570-01	.9278	.1167-02	.1976-02	.1390	.9110	558.0
287	180.00	.90000	646.00	.2380-01	.1720-01	.2870-01	.9278	.9506-03	.1591-02	.1150	.7730	555.9
287	180.00	.95000	649.00	.4150-01	.2940-01	.5080-01	.9278	.1628-02	.2815-02	.1890	1 354	561.4
287	191.25	.35000	650.00	.4050-01	.2940-01	.4860-01	.9278	.1626-02	.2692-02	.2010	1.345	553.9
287	191.25	.36000	651.00	.4090-01	.2980-01	.4900-01	.9278	.1647-02	.2712-02	.2050	1.379	552.8
287	191.25	.37000	652.00	.3650-01	.2670-01	.4380-01	.9278	.1476-02	.2422-02	.1850	1.238	552.2
287	191.25	.37500	653.00	.3940-01	.2870-01	.4720-01	.9278	.1588-02	.2612-02	.1980	1.332	552.6
287	191.25	.38000	654.00	.3810-01	.2780-01	.4560-01	.9278	.1540-02	.2524-02	.1930	1.298	552.0
287	191.25	.38500	655.00	.3710-01	.2700-01	.4440-01	.9278	.1496-02	.2459-02	.1870	1.256	552.5
287	191.25	.39000	656.00	.3650-01	.2670-01	.4370-01	.9278	.1475-02	.2421-02	.1850	1.242	552.2
287	191.25	.39500	657.00	.3750-01	.2730-01	.4490-01	.9278	.1512-02	.2486-02	.1890	1.269	552.6
287	191.25	.40000	658.00	.3760-01	.2740-01	.4510-01	.9278	.1515-02	.2496-02	.1890	1.271	553.0
287	191.25	.41000	660.00	.3980-01	.2890-01	.4780-01	.9278	.1602-02	.2644-02	.1990	1.337	553.2
287	191.25	.41500	661.00	.3750-01	.2730-01	.4490-01	.9278	.1512-02	.2485-02	.1890	1.267	552.5
287	191.25	.42000	662.00	.4110-01	.2980-01	.4940-01	.9278	.1652-02	.2736-02	.2040	1.370	554.0
287	191.25	.42500	663.00	.4210-01	.3050-01	.5050-01	.9278	.1691-02	.2796-02	.2090	1.411	553.6
287	191.25	.43000	664.00	.4070-01	.2950-01	.4890-01	.9278	.1633-02	.2705-02	.2010	1.370	554.0
287	191.25	.44000	665.00	.4320-01	.3130-01	.5200-01	.9278	.1734-02	.2878-02	.2130	1.442	554.3
287	191.25	.45000	666.00	.4420-01	.3210-01	.5320-01	.9278	.1778-02	.2943-02	.2200	1.484	553.9
287	191.25	.45500	667.00	.4290-01	.3120-01	.5160-01	.9278	.1725-02	.2854-02	.2130	1.442	553.8
287	191.25	.46000	668.00	.4420-01	.3210-01	.5310-01	.9278	.1779-02	.2937-02	.2210	1.497	553.3
287	191.25	.47000	669.00	.4740-01	.3440-01	.5700-01	.9278	.1904-02	.3155-02	.2350	1.596	554.1
287	191.25	.48000	670.00	.4290-01	.3110-01	.5150-01	.9278	.1722-02	.2852-02	.2130	1.446	553.9
287	191.25	.49000	671.00	.4370-01	.3170-01	.5250-01	.9278	.1753-02	.2908-02	.2160	1.462	554.3
287	191.25	.50000	672.00	.4340-01	.3160-01	.5200-01	.9278	.1748-02	.2879-02	.2180	1.509	552.9
287	191.25	.60000	673.00	.4120-01	.2980-01	.4970-01	.9278	.1648-02	.2750-02	.2010	1.283	555.4
287	191.25	.70000	674.00	.3650-01	.2630-01	.4410-01	.9278	.1454-02	.2443-02	.1760	1.189	556.6
287	191.25	.85000	676.00	.2650-01	.1920-01	.3190-01	.9278	.1061-02	.1764-02	.1300	.8200	554.6
287	191.25	.86000	677.00	.2600-01	.1880-01	.3140-01	.9278	.1038-02	.1736-02	.1260	.8040	555.7
287	191.25	.87000	678.00	.2620-01	.1890-01	.3170-01	.9278	.1045-02	.1757-02	.1260	.8100	556.6
287	191.25	.88000	679.00	.2630-01	.1890-01	.3180-01	.9278	.1045-02	.1762-02	.1250	.8140	557.3
287	191.25	.89000	680.00	.2340-01	.1670-01	.2840-01	.9278	.9262-03	.1569-02	.1110	.7280	558.1
287	191.25	.90000	681.00	.1750-01	.1250-01	.2120-01	.9278	.6936-03	.1172-02	.8300-01	.5570	557.6
287	191.25	.91000	682.00	.7900-02	.5700-02	.9500-02	.9278	.3148-03	.5260-03	.3800-01	.2780	555.6
287	191.25	.92000	683.00	.2290-01	.1630-01	.2790-01	.9278	.9043-03	.1543-02	.1070	.7770	559.3
287	191.25	.95000	684.00	.4260-01	.3020-01	.5210-01	.9278	.1670-02	.2883-02	.1940	1.392	561.2
287	197.00	.33000	685.00	.4110-01	.2990-01	.4940-01	.9278	.1654-02	.2735-02	.2050	1.370	553.7
287	197.00	.34000	686.00	.4080-01	.2960-01	.4900-01	.9278	.1638-02	.2715-02	.2020	1.353	554.1
287	197.00	.35000	687.00	.4200-01	.3050-01	.5040-01	.9278	.1690-02	.2790-02	.2100	1.403	553.4
287	197.00	.36000	688.00	.4030-01	.2930-01	.4840-01	.9278	.1621-02	.2676-02	.2010	1.347	553.4
287	197.00	.37000	689.00	.3620-01	.2640-01	.4330-01	.9278	.1459-02	.2399-02	.1820	1.221	552.6
287	197.00	.37500	690.00	.4360-01	.3170-01	.5230-01	.9278	.1755-02	.2893-02	.2180	1.467	553.0

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F17)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
287	197.00	.50000	691.00	.4420-01	.3210-01	.5310-01	.9278	.1776-02	.2940-02	.2190	1.469	553.9
287	197.00	.60000	692.00	.4810-01	.3490-01	.5780-01	.9278	.1931-02	.3198-02	.2380	1.531	554.0
287	197.00	.70000	693.00	.3500-01	.2530-01	.4220-01	.9278	.1401-02	.2336-02	.1710	1.155	555.3
287	197.00	.80000	694.00	.3380-01	.2460-01	.4060-01	.9278	.1362-02	.2248-02	.1690	1.058	553.3
287	197.00	.87000	695.00	.3350-01	.2410-01	.4050-01	.9278	.1334-02	.2244-02	.1610	1.020	556.8
287	197.00	.92600	696.00	.2650-01	.1890-01	.3230-01	.9278	.1045-02	.1786-02	.1230	.8960	559.5
287	209.80	.15000-01	697.00	.1657	.1176	.2024	.9278	.6510-02	.1121-01	.7600	5.180	560.7
288	209.80	.30000-01	698.00	.2974	.2067	.2904	.9527	.1143-01	.1606-01	1.269	8.546	566.6
288	209.80	.50000-01	699.00	.3319	.2296	.3371	.9483	.1269-01	.1864-01	1.394	8.769	567.8
288	209.80	.70000-01	700.00	.3547	.2253	.3866	.9428	.1246-01	.2138-01	1.158	7.681	584.7
288	209.80	.10000+00	701.00	.1941	.1360	.2199	.9363	.7521-02	.1216-01	.8510	5.379	564.4
288	209.80	.15000	702.00	.9550-01	.6820-01	.1139	.9297	.3771-02	.6300-02	.4480	3.182	558.9
288	209.80	.20000	703.00	.5160-01	.3790-01	.6130-01	.9278	.2097-02	.3392-02	.2690	1.788	549.4
288	209.80	.30000	704.00	.3330-01	.2450-01	.3950-01	.9278	.1356-02	.2183-02	.1750	1.240	548.5
288	209.80	.37500	706.00	.3540-01	.2640-01	.4180-01	.9278	.1458-02	.2311-02	.1930	1.327	545.1
288	209.80	.50000	707.00	.3570-01	.2630-01	.4250-01	.9278	.1452-02	.2350-02	.1860	1.272	549.5
288	209.80	.60000	708.00	.3610-01	.2660-01	.4280-01	.9278	.1472-02	.2369-02	.1900	1.211	548.4
288	209.80	.70000	709.00	.3370-01	.2460-01	.4020-01	.9278	.1361-02	.2225-02	.1710	1.090	551.6
288	209.80	.80000	710.00	.3200-01	.2340-01	.3820-01	.9278	.1294-02	.2113-02	.1630	1.015	551.4
288	209.80	.87000	711.00	.4230-01	.3060-01	.5090-01	.9278	.1693-02	.2815-02	.2080	1.309	554.8
288	209.80	.92600	712.00	.2430-01	.1750-01	.2930-01	.9278	.9688-03	.1619-02	.1180	.8550	555.7
288	217.70	.15000-01	713.00	.1394	.1009	.1678	.9278	.5577-02	.9276-02	.6840	4.692	554.9
288	217.70	.30000-01	714.00	.2643	.1847	.2592	.9523	.1021-01	.1433-01	1.148	7.736	565.2
288	217.70	.50000-01	715.00	.2879	.2027	.2931	.9479	.1121-01	.1621-01	1.283	8.299	563.1
288	217.70	.70000-01	716.00	.3239	.2095	.3531	.9424	.1158-01	.1952-01	1.111	7.450	581.7
288	217.70	.10000+00	717.00	.1731	.1224	.1958	.9360	.6767-02	.1083-01	.7820	5.036	562.0
288	217.70	.15000	718.00	.9550-01	.6880-01	.1134	.9296	.3803-02	.6272-02	.4610	3.359	556.3
288	217.70	.20000	719.00	.5390-01	.3980-01	.6390-01	.9278	.2200-02	.3534-02	.2850	1.921	548.0
288	217.70	.30000	720.00	.3230-01	.2380-01	.3840-01	.9278	.1318-02	.2121-02	.1700	1.217	548.4
288	217.70	.35000	721.00	.3980-01	.2880-01	.4590-01	.9278	.1592-02	.2538-02	.2090	1.449	546.3
288	217.70	.37500	722.00	.3780-01	.2810-01	.4460-01	.9278	.1551-02	.2467-02	.2040	1.417	545.9
288	217.70	.50000	723.00	.3480-01	.2570-01	.4130-01	.9278	.1423-02	.2283-02	.1850	1.276	547.7
288	217.70	.70000	725.00	.3340-01	.2440-01	.4000-01	.9278	.1350-02	.2210-02	.1700	1.075	551.9
288	217.70	.80000	726.00	.4430-01	.3220-01	.5320-01	.9278	.1781-02	.2940-02	.2210	1.384	553.5
288	217.70	.87000	727.00	.5110-01	.3680-01	.6170-01	.9278	.2035-02	.3410-02	.2470	1.572	556.2
288	217.70	.92600	728.00	.2870-01	.2060-01	.3460-01	.9278	.1141-02	.1915-02	.1380	.9980	556.6

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = 5.000 BETA = -6.000 GRIT = 3.000 RN/L = 5.000

•••TEST CONDITIONS•••

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
87	4.520	5.030	5.030	6.000	-50.00	97.00	.3270	667.0	131.1	4.677	2536.	.2093-03
88	4.520	5.031	5.030	6.000	-50.00	97.20	.3270	667.0	131.2	4.683	2537.	.2094-03
89	4.520	5.031	5.030	6.000	-50.00	97.20	.3280	667.0	131.2	4.684	2537.	.2095-03
264	4.520	4.955	5.030	6.000	-50.00	95.00	.3200	664.0	130.5	4.580	2531.	.2058-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ P FT2SEC	ST FR REF(R) =.0175
87	.1055-06	.4739-01	.1142-01
88	.1056-06	.4742-01	.1142-01
89	.1056-06	.4743-01	.1142-01
264	.1051-06	.4695-01	.1152-01

•••TEST DATA•••

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TC) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
88	.00000	.30000-02	730.00	.4275	.2813	.3415	.9742	.1334-01	.1620-01	1.301	8.832	569.7
88	.00000	.10000-01	731.00	.1946	.1405	.2546	.9193	.6667-02	.1208-01	.8010	5.516	547.1
88	.00000	.15000-01	732.00	.1889	.1358	.2484	.9193	.6440-02	.1178-01	.7640	5.195	548.5
88	.00000	.20000-01	733.00	.3720	.2554	.3117	.9707	.1202-01	.1478-01	1.258	8.568	562.6
88	.00000	.25000-01	734.00	.6170	.3761	.4981	.9686	.1784-01	.2362-01	1.524	10.19	581.8
88	.00000	.30000-01	735.00	.5576	.3699	.4899	.9669	.1754-01	.2323-01	1.579	10.65	577.2
88	.00000	.40000-01	737.00	.4042	.2763	.3538	.9654	.1310-01	.1678-01	1.381	8.942	561.8
89	.00000	.50000-01	738.00	.4149	.2895	.3766	.9636	.1373-01	.1786-01	1.442	9.474	562.2
89	.00000	.60000-01	739.00	.4343	.3023	.4549	.9583	.1528-01	.2157-01	1.459	9.687	571.7
89	.00000	.70000-01	740.00	.4363	.3187	.4900	.9549	.1549-01	.2362-01	1.356	9.020	579.7
89	.00000	.80000-01	741.00	.4345	.3245	.3621	.9516	.1160-01	.1708-01	1.166	8.397	566.6
89	.00000	.90000-01	742.00	.4349	.3251	.3008	.9455	.9535-02	.1427-01	1.046	6.948	557.5
89	.00000	.10000-00	743.00	.4342	.3266	.3519	.9346	.7425-02	.1195-01	.8040	5.808	559.0
88	.00000	.11000-00	744.00	.4342	.3275	.2131	.9326	.6045-02	.9956-02	.6910	4.789	552.9
88	.00000	.12000-00	745.00	.4342	.3275	.1610	.9275	.4580-02	.7163-02	.5140	3.450	547.2
88	.00000	.13000-00	746.00	.4342	.3275	.1610	.9235	.3759-02	.6403-02	.4650	3.328	543.6

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F17)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
89	.00000	.21500	747.00	.7880-01	.5780-01	.9920-01	.9216	.2742-02	.4704-02	.3440	2.388	541.8
88	.00000	.23000	748.00	.6060-01	.4430-01	.7760-01	.9201	.2102-02	.3681-02	.2610	1.934	543.0
89	.00000	.24000	749.00	.5580-01	.4080-01	.7200-01	.9193	.1937-02	.3415-02	.2410	1.820	542.9
88	.00000	.25000	750.00	.3120-01	.2290-01	.4020-01	.9193	.1086-02	.1907-02	.1360	1.102	542.2
88	.00000	.30000	751.00	.6300-01	.4610-01	.8130-01	.9193	.2187-02	.3854-02	.2720	1.789	542.8
88	.00000	.35000	752.00	.6160-01	.4570-01	.7880-01	.9193	.2166-02	.3737-02	.2770	1.759	539.2
89	.00000	.40000	753.00	.5760-01	.4260-01	.7340-01	.9193	.2023-02	.3482-02	.2600	1.676	538.8
88	.00000	.50000	754.00	.5130-01	.3810-01	.6660-01	.9193	.1806-02	.3157-02	.2270	1.491	541.4
89	.00000	.60000	755.00	.5150-01	3830-01	.6520-01	.9193	.1818-02	.3093-02	.2370	1.530	536.6
88	.00000	.70000	756.00	.5550-01	.4110-01	.7070-01	.9193	.1950-02	.3354-02	.2510	1.662	538.7
88	.00000	.80000	757.00	.4730-01	.3530-01	.5970-01	.9193	.1674-02	.2829-02	.2210	1.390	535.4
88	.00000	.90000	758.00	.3400-01	.2540-01	.4280-01	.9193	.1204-02	.2031-02	.1590	1.035	535.0
88	55.000	.22000	759.00	.8390-01	.6030-01	1040	.9230	.2858-02	.4934-02	.3490	2.598	545.1
88	55.000	.25000	760.00	.4320-01	.3070-01	.5420-01	.9207	.1454-02	.2569-02	.1770	1.390	545.2
88	55.000	.27000	761.00	.5400-01	.3870-01	.7020-01	.9207	.1834-02	.3331-02	.2160	1.605	549.4
88	55.000	.30000	762.00	.7400-01	.5370-01	.9520-01	.9207	.2548-02	.4513-02	.3100	1.862	545.7
88	55.000	.32000	763.00	.7540-01	.5490-01	.9640-01	.9207	.2605-02	.4573-02	.3200	1.899	544.2
88	55.000	.34000	764.00	.7280-01	.5300-01	.9260-01	.9207	.2515-02	.4394-02	.3110	1.849	543.5
88	55.000	.36000	765.00	.7100-01	.5190-01	.9040-01	.9207	.2462-02	.4287-02	.3060	1.845	542.8
88	55.000	.37000	766.00	.7080-01	.5160-01	.9020-01	.9207	.2457 02	.4276-02	.3060	1.862	542.8
88	55.000	.40000	767.00	.6910-01	.5070-01	.8780-01	.9207	.2402-02	.4166-02	.3000	1.881	542.2
89	67.500	.23000	768.00	.7720-01	.5620-01	.9800-01	.9215	.2666-02	.4646-02	.3270	2.439	544.4
88	67.500	.25000	769.00	.4410-01	.3210-01	.5650-01	.9205	.1524-02	.2680-02	.1880	1.461	544.2
89	67.500	.27000	770.00	.5890-01	.4230-01	.7670-01	.9205	.2006-02	.3637-02	.2370	1.730	543.9
88	67.500	.29000	771.00	.4990-01	.3630-01	.6410-01	.9205	.1723-02	.3038-02	.2110	1.310	544.7
88	67.500	.31000	772.00	.7380-01	.5350-01	.9500-01	.9205	.2540-02	.4505-02	.3090	1.888	545.6
88	67.500	.33000	773.00	.7110-01	.5170-01	.9130-01	.9205	.2453-02	.4331-02	.3000	1.821	544.9
88	67.500	.35000	774.00	.7240-01	.5290-01	.9240-01	.9205	.2510-02	.4382-02	.3120	1.877	543.1
88	67.500	.36500	775.00	.7410-01	.5420-01	.9460-01	9205	.2571-02	.4487-02	.3150	1.929	543.0
88	67.500	.38000	776.00	.7320-01	.5350-01	.9350-01	.9205	.2536-02	.4433-02	.3140	1.904	543.2
88	67.500	.39000	777.00	.7460-01	.5460-01	.9510-01	.9205	.2589-02	.4512-02	.3220	1.951	542.8
88	67.500	.39500	778.00	.7470-01	.5460-01	.9530-01	.9205	.2591-02	.4518-02	.3220	1.951	542.9
88	67.500	.39500	779.00	.7320-01	.5350-01	.9340-01	.9205	.2540-02	.4428-02	.3160	1.918	542.8
88	67.500	.39000	780.00	.7140-01	.5230-01	.9110-01	.9205	.2481-02	.4318-02	.3090	1.884	542.5
89	67.500	.38500	781.00	.7300-01	.5340-01	.9300-01	.9205	.2533-02	.4412-02	.3160	1.927	542.6
88	67.500	.36000	782.00	.7450-01	.5450-01	.9500-01	.9205	.2586-02	.4506-02	.3220	1.966	542.7
88	67.500	.36500	783.00	.6800-01	.4990-01	.8660-01	.9205	.2366-02	.4109-02	.2960	1.803	542.2
88	67.500	.37000	784.00	.6850-01	.5020-01	.8730-01	.9205	.2382-02	.4139-02	.2980	1.823	542.3
88	67.500	.37500	785.00	.7250-01	.5310-01	.9250-01	.9205	.2516-02	.4385-02	.3130	1.934	542.7
88	67.500	.38000	736.00	.6830-01	.5010-01	.8710-01	.9205	.2374-02	.4129-02	.2960	1.834	542.4
88	67.500	.39000	787.00	.6890-01	.5040-01	.8800-01	.9205	.2392-02	.4172-02	.2970	1.846	542.9
88	67.500	.40000	788.00	.7010-01	.5120-01	.8960-01	.9205	.2430-02	.4248-02	.3010	1.865	543.3
89	67.500	.50000	789.00	.6170-01	.4480-01	.7940-01	.9205	.2126-02	.3764-02	.2590	1.664	545.3

(HH1(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	QDOT BTU/ DEG. R /SEC	TW DEG. R
264	67.500	.60000	790.00	.8200-01	.5860-01	.9830-01	.9293	.3248-02	.5447-02	.3870	2.523	561.8
264	67.500	.70000	791.00	.8800-01	.6080-01	.1079	.9293	.3371-02	.5984-02	.3720	2.595	570.7
264	67.500	.80000	792.00	.9450-01	.6590-01	.1153	.9293	.3652-02	.6389-02	.4110	2.552	568.6
264	67.500	.90000	793.00	.6470-01	.4280-01	.8210-01	.9293	.2373-02	.4553-02	.2390	1.514	580.4
264	78.000	.27000	794.00	.7020-01	.4960-01	.8500-01	.9290	.2750-02	.4712-02	.3190	2.256	555.2
264	78.000	.28000	795.00	.1080	.7640-01	.1328	.9290	.4235-02	.7364-02	.4820	2.938	567.3
89	78.000	.30000	796.00	.7020-01	.5130-01	.8390-01	.9202	.2435-02	.4259-02	.3030	1.839	543.0
89	78.000	.31000	797.00	.6850-01	.5020-01	.8750-01	.9202	.2383-02	.4148-02	.2980	1.811	542.2
89	78.000	.32000	798.00	.6700-01	.4930-01	.8540-01	.9202	.2334-02	.4049-02	.2930	1.774	541.6
89	78.000	.33000	799.00	.6800-01	.5000-01	.8660-01	.9202	.2371-02	.4107-02	.2990	1.810	541.3
89	78.000	.34000	800.00	.6810-01	.5010-01	.8670-01	.9202	.2378-02	.4111-02	.3000	1.822	540.9
89	78.000	.35000	801.00	.7190-01	.5290-01	.9160-01	.9202	.2509-02	.4342-02	.3160	1.919	541.2
89	78.000	.36000	802.00	.6920-01	.5100-01	.8780-01	.9202	.2417-02	.4166-02	.3070	1.859	540.5
89	78.000	.37000	803.00	.6910-01	.5090-01	.8770-01	.9202	.2415-02	.4160-02	.3070	1.864	540.4
89	78.000	.38000	804.00	.7190-01	.5300-01	.9130-01	.9202	.2515-02	.4329-02	.3200	1.944	540.2
89	78.000	.39000	805.00	.7160-01	.5280-01	.9070-01	.9202	.2503-02	.4300-02	.3190	1.939	539.9
89	78.000	.35500	806.00	.1089	.8050-01	.1379	.9202	.3821-02	.6540-02	.4690	2.986	539.2
89	78.000	.35000	807.00	.6850-01	.5050-01	.8670-01	.9202	.2395-02	.4113-02	.3050	1.867	539.8
89	78.000	.36000	808.00	.6730-01	.4720-01	.8110-01	.9202	.2235-02	.3845-02	.2950	1.746	540.0
89	78.000	.37000	809.00	.6660-01	.4910-01	.8430-01	.9202	.2330-02	.3998-02	.2970	1.824	539.7
89	78.000	.38000	810.00	.6350-01	.4680-01	.8050-01	.9202	.2222-02	.3817-02	.2830	1.746	539.9
89	78.000	.39000	811.00	.6330-01	.4660-01	.8040-01	.9202	.2211-02	.3814-02	.2800	1.731	540.6
89	78.000	.40000	812.00	.6740-01	.5010-01	.8600-01	.9202	.2375-02	.4081-02	.3020	1.870	539.9
264	90.000	.40000-01	995	.4.93	.0959	.3667	.9672	.1386-01	.1719-01	1.564	10.15	551.2
264	90.000	.50000-01	996.00	.6327	.3677	.4750	.9635	.1723-01	.2226-01	1.847	11.89	556.8
264	90.000	.60000-01	997.00	.5745	.3373	.4826	.9600	.1630-01	.2252-01	1.549	10.08	566.9
264	90.000	.70000-01	998.00	.4.99	.2702	.3976	.9533	.1304-01	.1882-01	1.347	9.479	560.6
264	90.000	.80000-01	999.00	.3.70	.1383	.2283	.9339	.6482-02	.1070-01	.7220	5.287	552.6
264	90.000	.90000-01	997.00	.3.70	.1383	.2283	.9339	.6482-02	.1070-01	.7220	5.287	552.6
89	90.000	.20000	813.00	.6650-01	.4980-01	.8450-01	.9206	.2315-02	.4008-02	.2900	2.115	541.9
89	90.000	.21000	814.00	.6.03-01	.4440-01	.7770-01	.9198	.2105-02	.3683-02	.2630	2.134	542.3
89	90.000	.22000	815.00	.5.03-01	.4150-01	.7370-01	.9198	.1972-02	.3493-02	.2420	1.725	544.4
89	90.000	.23000	816.00	.5.03-01	.3900-01	.6710-01	.9196	.1828-02	.3183-02	.2300	1.633	541.5
89	90.000	.24000	817.00	.5.03-01	.4060-01	.8480-01	.9198	.2208-02	.4023-02	.2870	1.759	542.4
89	90.000	.25000	818.00	.4.03-01	.4060-01	.8500-01	.9198	.2216-02	.4033-02	.2910	1.770	541.5
89	90.000	.26000	819.00	.4.03-01	.4130-01	.8630-01	.9198	.2300-02	.3997-02	.2900	1.759	541.2
89	90.000	.27000	820.00	.4.03-01	.4930-01	.8430-01	.9198	.2273-02	.4026-02	.2940	1.778	540.7
89	90.000	.28000	821.00	.5.03-01	.5330-01	.8780-01	.9198	.2404-02	.4165-02	.3070	1.865	539.9
89	90.000	.29000	822.00	.4.03-01	.3.30-01	.8480-01	.9198	.2322-02	.4122-02	.2980	1.814	539.3
89	90.000	.30000	823.00	.5.03-01	.5.30-01	.8880-01	.9198	.2.4-02	.4136-02	.3060	1.915	539.6
89	90.000	.31000	824.00	.5.03-01	.5.30-01	.8880-01	.9198	.2.4-02	.4102-02	.3.60	1.88.	539.4
89	90.000	.32000	825.00	.5.03-01	.5.30-01	.8880-01	.9198	.2.4-02	.4136-02	.3.60	1.88.	539.2
89	90.000	.33000	826.00	.5.03-01	.5.30-01	.8880-01	.9198	.2.4-02	.4136-02	.3.60	1.88.	539.2
89	90.000	.34000	827.00	.5.03-01	.5.30-01	.8880-01	.9198	.2.4-02	.4136-02	.3.60	1.88.	539.2
89	90.000	.35000	828.00	.5.03-01	.5.30-01	.8880-01	.9198	.2.4-02	.4136-02	.3.60	1.88.	539.2
89	90.000	.36000	829.00	.5.03-01	.5.30-01	.8880-01	.9198	.2.4-02	.4136-02	.3.60	1.88.	539.2
89	90.000	.37000	830.00	.5.03-01	.5.30-01	.8880-01	.9198	.2.4-02	.4136-02	.3.60	1.88.	539.2
89	90.000	.38000	831.00	.5.03-01	.5.30-01	.8880-01	.9198	.2.4-02	.4136-02	.3.60	1.88.	539.2
89	90.000	.39000	832.00	.5.03-01	.5.30-01	.8880-01	.9198	.2.4-02	.4136-02	.3.60	1.88.	539.2
89	90.000	.40000	833.00	.5.03-01	.5.30-01	.8880-01	.9198	.2.4-02	.4136-02	.3.60	1.88.	539.2

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
89	90.000	.37500	831.00	.6330-01	.4690-01	.8020-01	.9198	.2224-02	.3905-02	.2860	1.754	538.4
89	90.000	.38000	832.00	.6360-01	.4700-01	.8070-01	.9198	.2231-02	.3829-02	.2860	1.752	539.0
89	90.000	.39000	833.00	.6010-01	.4450-01	.7630-01	.9198	.2108-02	.3620-02	.2700	1.673	539.1
89	90.000	.40000	834.00	.6180-01	.4570-01	.7850-01	.9198	.2168-02	.3723-02	.2780	1.723	539.1
89	90.000	.41000	835.00	.6450-01	.4750-01	.8280-01	.9198	.2241-02	.3926-02	.2800	1.771	542.5
89	90.000	.42000	836.00	.6170-01	.4560-01	.7860-01	.9198	.2162-02	.3726-02	.2760	1.843	539.7
89	90.000	.43000	837.00	.5860-01	.4180-01	.7200-01	.9198	.1982-02	.3413-02	.2530	1.788	539.6
89	90.000	.44000	838.00	.5850-01	.4190-01	.7060-01	.9198	.1986-02	.3347-02	.2610	1.634	535.6
89	90.000	.45000	839.00	.3800-01	.2630-01	.4390-01	.9198	.1245-02	.2082-02	.1660	1.067	534.1
89	90.000	.46000	840.00	.6260-01	.4460-01	.7740-01	.9195	.2116-02	.3669-02	.2690	2.172	540.4
89	112.50	.23000	841.00	.4230-01	.3120-01	.5420-01	.9189	.1481-02	.2568-02	.1900	1.475	539.3
89	112.50	.26000	842.00	.2950-01	.2180-01	.3780-01	.9189	.1034-02	.1792-02	.1320	.9290	539.3
89	112.50	.27000	843.00	.6350-01	.4470-01	.7750-01	.9189	.2120-02	.3677-02	.2710	1.618	539.4
89	112.50	.30000	844.00	.3490-01	.2580-01	.4480-01	.9189	.1225-02	.2124-02	.1570	.9480	539.4
89	112.50	.33000	845.00	.4760-01	.3540-01	.6070-01	.9189	.1678-02	.2881-02	.2170	1.339	537.7
89	112.50	.35000	846.00	.4230-01	.3140-01	.5390-01	.9189	.1489-02	.2554-02	.1930	1.196	537.5
89	112.50	.37000	847.00	.5410-01	.4030-01	.6880-01	.9189	.1913-02	.3201-02	.2510	1.570	536.3
89	112.50	.40000	848.00	.5170-01	.3850-01	.6590-01	.9189	.1824-02	.3123-02	.2370	1.499	537.1
89	112.50	.42000	849.00	.5120-01	.3780-01	.6550-01	.9189	.1795-02	.3107-02	.2300	1.485	539.1
89	112.50	.45000	850.00	.3830-01	.2840-01	.4890-01	.9189	.1349-02	.2318-02	.1750	1.173	537.8
89	112.50	.48000	851.00	.4720-01	.3500-01	.6010-01	.9189	.1662-02	.2851-02	.2160	1.452	537.5
89	112.50	.50000	852.00	.4840-01	.3600-01	.6160-01	.9189	.1706-02	.2921-02	.2220	1.518	537.1
89	112.50	.53000	853.00	.5250-01	.3900-01	.6680-01	.9189	.1851-02	.3167-02	.2410	1.702	537.0
89	112.50	.56000	854.00	.4180-01	.3140-01	.5270-01	.9189	.1487-02	.2502-02	.1990	1.296	533.9
89	112.50	.58000	855.00	.4370-01	.3280-01	.5520-01	.9189	.1556-02	.2618-02	.2080	1.359	533.9
89	112.50	.60000	856.00	.2650-01	.1990-01	.3340-01	.9189	.9450-03	.1584-02	.1270	.8280	533.1
89	125.40	.30000	857.00	.3060-01	.2290-01	.3880-01	.9185	.1088-02	.1840-02	.1450	.9000	534.2
89	125.40	.33000	858.00	.3200-01	.2400-01	.4060-01	.9185	.1138-02	.1927-02	.1510	.9450	534.4
89	125.40	.35000	859.00	.3340-01	.2500-01	.4230-01	.9185	.1188-02	.2007-02	.1580	.9980	534.0
89	125.40	.38000	860.00	.3210-01	.2400-01	.4060-01	.9185	.1139-02	.1927-02	.1510	.9580	534.3
89	125.40	.40000	861.00	.3430-01	.2550-01	.4300-01	.9185	.1207-02	.2039-02	.1610	1.018	533.9
89	125.40	.43000	862.00	.3180-01	.2390-01	.4530-01	.9185	.1275-02	.2150-02	.1710	1.085	533.5
89	125.40	.45000	863.00	.2300-01	.2180-01	.3660-01	.9185	.1034-02	.1734-02	.1390	.8930	532.5
89	125.40	.90000	864.00	.1790-01	.1360-01	.2240-01	.9185	.6431-03	.1061-02	.8900-01	.6510	529.3
89	125.40	.91000	865.00	.1890-01	.1420-01	.2390-01	.9185	.6741-03	.1132-02	.9100-01	.6610	532.8
89	125.40	.92500	866.00	.4160-01	.3120-01	.5260-01	.9184	.1481-02	.2497-02	.1980	1.255	533.4
89	129.30	.80000	867.00	.3330-01	.2490-01	.4210-01	.9184	.1183-02	.1958-02	.1560	.9930	533.8
89	129.30	.81000	868.00	.3070-01	.2300-01	.3880-01	.9184	.1091-02	.1841-02	.1460	.9180	533.6
89	129.30	.82000	869.00	.2680-01	.2010-01	.3400-01	.9184	.9528-03	.1610-02	.1270	.8010	534.0
89	129.30	.83000	870.00	.3370	.2350	.3158	.9578	.1115-01	.1498-01	1.229	7.859	557.1
89	135.00	.40000-01	871.00	.3426	.2419	.3309	.9542	.1147-01	.1569-01	1.303	8.304	553.7
89	135.00	.50000-01	872.00	.4028	2715	.3994	.9509	.1288-01	.1894-01	1.318	8.675	564.9
89	135.00	.60000-01	873.00	.4674	.2981	.4802	.9477	.1414-01	.2278-01	1.303	8.737	575.2
89	135.00	.70000-01	874.00	.5284	.3241	.5600	.9446	.1539-01	.2667-01	1.288	8.799	585.3

(RV7F17)

(IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
89	135.00	.10000+00	875.00	.2484	.1768	.2729	.9389	.8384-02	.1294-01	.9700	6.330	551.6
89	135.00	.15000	876.00	.1393	.1002	.1688	.9276	.4751-02	.8005-02	.5650	4.128	548.5
89	135.00	.20000	877.00	.7010-01	.5180-01	.8840-01	.9206	.2459-02	.4192-02	.3150	2.135	539.0
89	135.00	.35000	878.00	.4880-01	.3650-01	.6220-01	.9183	.1729-02	.2951-02	.2280	1.423	535.6
89	135.00	.45000	879.00	.4140-01	.3100-01	.5260-01	.9183	.1466-02	.2497-02	.1940	1.234	535.2
89	135.00	.50000	880.00	.3680-01	.2700-01	.4640-01	.9183	.1282-02	.2201-02	.1670	1.155	536.7
89	135.00	.60000	881.00	.2700-01	.2020-01	.3440-01	.9183	.9583-03	.1633-02	.1260	.8470	535.4
89	135.00	.65000	882.00	.3680-01	.2670-01	.4660-01	.9183	.1267-02	.2163-02	.1670	1.128	535.6
89	135.00	.68000	883.00	.3630-01	.2710-01	.4600-01	.9183	.1286-02	.2192-02	.1690	1.163	535.5
89	135.00	.69000	884.00	.3100-01	.2320-01	.3940-01	.9183	.1098-02	.1869-02	.1450	1.038	535.1
89	135.00	.70000	885.00	.2480-01	.1860-01	.3140-01	.9183	.8818-03	.1487-02	.1180	.7480	533.4
89	135.00	.75000	886.00	.5460-01	.4050-01	.1164	.9278	.3682-02	.6449-02	.4920	2.625	566.4
89	135.00	.80000	887.00	.7430-01	.5490-01	.9400-01	.9130	.2678-02	.4234-02	.3000	1.000	544.7
89	135.00	.85000	888.00	.6410-01	.4800-01	.8100-01	.9183	.8926-03	.1595-02	.1100	.6990	540.8
89	135.00	.90000	889.00	.5780-01	.4270-01	.7230-01	.9183	.8447-03	.1515-02	.1030	.6600	541.4
89	135.00	.95000	890.00	.2470-01	.1800-01	.3030-01	.9183	.9020-03	.1634-02	.1090	.7000	542.9
89	135.00	1.00000	891.00	.2580-01	.1920-01	.3490-01	.9183	.8769-03	.1592-02	.1060	.6900	543.2
89	135.00	1.05000	892.00	.2580-01	.1870-01	.3400-01	.9183	.3176-03	.5708-03	.3900-01	.2840	541.7
89	135.00	1.10000	893.00	.9510-02	.6910-02	.1220-01	.9183	.6042-03	.1102-02	.7300-01	.5280	543.9
89	135.00	1.15000	894.00	.1780-01	.1280-01	.2350-01	.9183	.1528-02	.2829-02	.1800	1.303	546.0
89	135.00	1.20000	895.00	.4540-01	.3360-01	.6040-01	.9183	.1225-02	.2119-02	.1380	1.025	534.9
89	135.00	1.25000	896.00	.4620-01	.3420-01	.6150-01	.9183	.1225-02	.2100-02	.1390	1.022	533.8
89	135.00	1.30000	897.00	.6510-01	.4810-01	.8660-01	.9183	.1163-02	.2016-02	.1300	.9950	535.4
89	135.00	1.35000	898.00	.6070-01	.4480-01	.8080-01	.9183	.1028-02	.1806-02	.1200	.8860	538.0
89	135.00	1.40000	899.00	.4280-01	.3160-01	.5690-01	.9183	.1034-02	.1807-02	.1310	.8740	537.2
89	135.00	1.45000	900.00	.2990-01	.2210-01	.3980-01	.9183	.9582-03	.1709-02	.1180	.8100	540.5
89	135.00	1.50000	901.00	.4390-01	.3240-01	.5840-01	.9183	.8758-03	.1555-02	.1080	.6880	540.8
89	135.00	1.55000	902.00	.2370-01	.1750-01	.3150-01	.9183	.7668-03	.1377-02	.9400-01	.5950	541.5
89	135.00	1.60000	903.00	.2340-01	.1640-01	.2940-01	.9183	.1205-02	.2076-02	.1560	1.011	534.7
89	135.00	1.65000	904.00	.3670-01	.2670-01	.4730-01	.9183	.1173-02	.2022-02	.1510	.9890	534.8
89	135.00	1.70000	905.00	.3870-01	.2800-01	.4970-01	.9183	.1092-02	.1883-02	.1400	.9210	535.1
89	135.00	1.75000	906.00	.2230-01	.1610-01	.2870-01	.9183	.8574-03	.1520-02	.1090	.7380	537.8
89	135.00	1.80000	907.00	.1460-01	.1040-01	.1840-01	.9183	.1476-02	.2552-02	.1910	1.200	546.4
89	135.00	1.85000	908.00	.2210-01	.1600-01	.2830-01	.9183	.1330-02	.2346-02	.1760	1.084	549.9
89	135.00	1.90000	909.00	.3880-01	.2810-01	.4980-01	.9183	.1087-02	.1871-02	.1417	.7720	558.3
89	135.00	1.95000	910.00	.2210	.1610	.2834	.9183	.8993-03	.1599-02	.1042	.7066	559.0
89	135.00	2.00000	911.00	.2634	.1910	.3378	.9183	.8845-03	.1547-02	.1070	.6960	560.5
89	135.00	2.05000	912.00	.2630	.1900	.3360	.9183	.1085-02	.1850-02	.1420	.9604	.1033
89	135.00	2.10000	913.00	.2610	.1890	.3340	.9183	.1083-02	.1843-02	.1420	.9600	.1033
89	135.00	2.15000	914.00	.2600	.1880	.3320	.9183	.1074-02	.1829-02	.1410	.9530	.1026
89	135.00	2.20000	915.00	.2590	.1870	.3310	.9183	.1061-02	.1807-02	.1390	.9410	.1013
89	135.00	2.25000	916.00	.2580	.1870	.3300	.9183	.1061-02	.1807-02	.1390	.9410	.1013
89	135.00	2.30000	917.00	.2570	.1860	.3290	.9183	.1061-02	.1807-02	.1390	.9410	.1013
89	135.00	2.35000	918.00	.2560	.1850	.3270	.9183	.1061-02	.1807-02	.1390	.9410	.1013
89	135.00	2.40000	919.00	.2550	.1840	.3260	.9183	.1061-02	.1807-02	.1390	.9410	.1013
89	135.00	2.45000	920.00	.2540	.1830	.3250	.9183	.1061-02	.1807-02	.1390	.9410	.1013
89	135.00	2.50000	921.00	.2530	.1820	.3230	.9183	.1061-02	.1807-02	.1390	.9410	.1013
89	135.00	2.55000	922.00	.2520	.1810	.3220	.9183	.1061-02	.1807-02	.1390	.9410	.1013
89	135.00	2.60000	923.00	.2510	.1800	.3210	.9183	.1061-02	.1807-02	.1390	.9410	.1013
89	135.00	2.65000	924.00	.2500	.1790	.3190	.9183	.1061-02	.1807-02	.1390	.9410	.1013
89	135.00	2.70000	925.00	.2490	.1780	.3180	.9183	.1061-02	.1807-02	.1390	.9410	.1013
89	135.00	2.75000	926.00	.2480	.1770	.3170	.9183	.1061-02	.1807-02	.1390	.9410	.1013
89	135.00	2.80000	927.00	.2470	.1760	.3150	.9183	.1061-02	.1807-02	.1390	.9410	.1013
89	135.00	2.85000	928.00	.2460	.1750	.3140	.9183	.1061-02	.1807-02	.1390	.9410	.1013
89	135.00	2.90000	929.00	.2450	.1740	.3130	.9183	.1061-02	.1807-02	.1390	.9410	.1013
89	135.00	2.95000	930.00	.2440	.1730	.3120	.9183	.1061-02	.1807-02	.1390	.9410	.1013
89	135.00	3.00000	931.00	.2430	.1720	.3100	.9183	.1061-02	.1807-02	.1390	.9410	.1013

(IH41/AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F17)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
264	157.50	.87000	928.00	.2530-01	.1850-01	.3310-01	.9183	.8650-03	.1549-02	.1060	.6930	541.1
264	157.50	.88000	929.00	.2960-01	.2160-01	.3880-01	.9183	.1011-02	.1821-02	.1230	.8060	542.0
264	157.50	.89000	930.00	.3650-01	.2650-01	.4800-01	.9183	.1240-02	2248-02	.1500	.9890	543.0
264	157.50	.90000	931.00	.3300-01	.2400-01	.4340-01	.9183	.1124-02	.2036-02	.1360	.9.90	542.9
264	157.50	.91000	932.00	.2280-01	.1660-01	.3020-01	.9183	.7781-03	.1413-02	.9400-01	.6890	543.2
264	157.50	.92000	933.00	.2850-01	.2080-01	.3810-01	.9183	.9740-03	.1785-02	.1180	.8490	544.6
264	163.12	.91500	934.00	.2800-01	.2100-01	.3550-01	.9183	.9824-03	.1666-02	.1300	.6430	531.7
264	163.12	.92000	935.00	.2680-01	.2150-01	.3660-01	.9183	.1009-02	.1724-02	.1320	.6690	533.2
264	163.12	.92500	936.00	.2810-01	.2100-01	.3590-01	.9183	.9834-03	.1680-02	.1290	.6500	533.2
264	163.12	.93000	937.00	.2740-01	.2040-01	.3500-01	.9183	.9571-03	.1638-02	.1250	.6230	533.5
264	163.12	.93500	938.00	.2800-01	.1940-01	.3310-01	.9183	.9073-03	.1554-02	.1180	.7910	533.5
264	163.12	.94000	939.00	.2570-01	.1920-01	.3290-01	.9183	.8997-03	.1540-02	.1170	.7650	533.5
264	163.12	.94500	940.00	.2280-01	.1650-01	.2860-01	.9183	.7730-03	.1340-02	.9800-01	.6760	535.7
264	163.12	.95000	941.00	.2190-01	.1620-01	.2810-01	.9183	.7603-03	.1318-02	.9700-01	.6320	535.7
264	163.12	.95500	942.00	.1550-01	.1140-01	.2010-01	.9183	.5337-03	.9415-03	.6700-01	.4610	538.7
264	163.12	.96000	943.00	.1330-01	.9800-02	.1740-01	.9183	.4572-03	.8158-03	.5800-01	.3690	540.6
264	168.00	.88000	944.00	.2970-01	.2230-01	.3760-01	.9183	.1044-02	.1763-02	.1390	.8880	530.9
264	168.00	.89000	945.00	.2830-01	.2160-01	.3660-01	.9183	.1021-02	.1717-02	.1370	.8770	530.0
264	168.00	.90000	946.00	.2800-01	.2100-01	.3560-01	.9183	.9855-03	.1657-02	.1310	.8400	531.3
264	168.00	.91000	947.00	.2770-01	.2080-01	.3510-01	.9183	.9739-03	.1646-02	.1290	.8310	531.1
264	168.00	.92000	948.00	.2630-01	.1980-01	.3360-01	.9183	.9274-03	.1560-02	.1230	.7910	530.5
264	168.00	.93000	949.00	.2680-01	.1990-01	.3360-01	.9183	.9331-03	.1577-02	.1240	.8110	531.1
264	168.00	.93500	950.00	.2690-01	.1990-01	.3370-01	.9183	.9337-03	.1580-02	.1240	.7980	531.3
264	168.00	.94000	951.00	.2690-01	.2020-01	.3420-01	.9183	.9451-03	.1604-02	.1250	.8180	531.9
264	168.00	.94500	952.00	.2730-01	.2040-01	.3460-01	.9183	.9541-03	.1621-02	.1260	.8270	532.1
264	168.00	.95000	953.00	.2750-01	.2050-01	.3490-01	.9183	.9619-03	.1637-02	.1270	.8320	532.4
264	168.00	.95500	954.00	.2730-01	.2040-01	.3470-01	.9183	.9551-03	.1625-02	.1260	.8280	532.4
264	168.00	.96000	955.00	.2810-01	.1980-01	.3310-01	.9183	.9129-03	.1553-02	.1200	.7940	532.4
264	168.00	.96500	956.00	.2870-01	.2060-01	.3510-01	.9183	.9844-03	.1645-02	.1260	.8360	532.8
264	168.00	.97000	957.00	.2870-01	.2000-01	.3410-01	.9183	.9356-03	.1596-02	.1230	.8080	532.9
264	168.00	.97500	958.00	.2790-01	.2020-01	.3440-01	.9183	.9457-03	.1612-02	.1240	.8200	532.7
264	168.00	.98000	959.00	.2700-01	.1930-01	.3300-01	.9183	.9060-03	.1548-02	.1180	.7830	533.2
264	168.00	.98500	960.00	.2460-01	.1830-01	.3130-01	.9183	.8534-03	.1469-02	.1120	.7470	533.2
264	168.00	.99000	961.00	.2310-01	.1720-01	.2960-01	.9183	.8071-03	.1385-02	.1050	.7010	534.0
264	168.00	.99500	962.00	.2300-01	.1710-01	.2940-01	.9183	.8034-03	.1379-02	.1040	.7000	534.1
264	168.00	1.00000	963.00	.2300-01	.1710-01	.2950-01	.9183	.8021-03	.1384-02	.1030	.7000	535.0
264	169.00	.99000	967.00	.2050-01	.1530-01	.2630-01	.9183	.7159-03	.1231-02	.9300-01	.6270	534.4
264	168.00	.85000	968.00	.2630-01	.1920-01	.3430-01	.9183	.9015-03	.1606-02	.1110	.7250	540.3
264	168.00	.86000	969.00	.2740-01	.2000-01	.3580-01	.9183	.9377-03	.1680-02	.1150	.7510	541.2
264	168.00	.87000	970.00	.3200-01	.2330-01	.4180-01	.9183	.1091-02	.1959-02	.1340	.8740	541.5
264	168.00	.88000	971.00	.3710-01	.2700-01	.4870-01	.9183	.1264-02	.2284-02	.1540	1.007	542.5
264	168.00	.89000	972.00	.3910-01	.2830-01	.5150-01	.9183	.1328-02	.2414-02	.1600	1.065	543.4
264	169.00	.90000	973.00	.3390-01	.2460-01	.4450-01	.9183	.1153-02	.2084-02	.1400	.9540	542.5

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F17)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
264	168.00	.91000	974.00	.2280-01	.1660-01	.3000-01	.9183	.7761-03	.1404-02	.9400-01	.6880	542.6
264	168.00	.92600	975.00	.2850-01	.2060-01	.3770-01	.9183	.9648-03	.1769-02	.1150	.8350	544.6
264	168.00	.95000	976.00	.3080-01	.2210-01	.4110-01	.9183	.1037-02	.1926-02	.1220	.8770	546.5
264	180.00	.20000-01	982.00	.9040-01	.6840-01	.8830-01	.9537	.3205-02	.4136-02	.4370	3.071	527.5
264	180.00	.25000-01	983.00	.1996	.1470	.1971	.9518	.6888-02	.9238-02	.8670	6.018	536.1
264	180.00	.30000-01	984.00	.3106	.2142	.3102	.9502	.1004-01	.1454-01	1.073	7.332	557.0
87	180.00	.40000-01	600.00	.3497	.2424	.3538	.9487	.1148-01	.1677-01	1.247	7.972	558.1
87	180.00	.50000-01	601.00	.3701	.2578	.3856	.9454	.1221-01	.1827-01	1.342	8.608	556.8
87	180.00	.60000-01	602.00	.3845	.2387	.3833	.9422	.1131-01	.1816-01	1.154	7.621	564.6
87	180.00	.70000-01	603.00	.3809	.2455	.4320	.9393	.1163-01	.2047-01	1.091	7.345	572.9
87	180.00	.80000-01	604.00	.2566	.1779	.2898	.9365	.8429-02	.1373-01	.9230	5.976	557.1
87	180.00	.10000+00	605.00	.1614	.1152	.1893	.9316	.5461-02	.8971-02	.6750	4.550	550.1
87	180.00	.15000	606.00	.6050-01	.5850-01	.1014	.9226	.2774-02	.4804-02	.3390	2.465	544.5
87	180.00	.20000	607.00	.3840-01	.2850-01	.4930-01	.9185	.1350-02	.2336-02	.1740	1.240	537.8
87	180.00	.21000	4.00	.3000-01	.2300-01	.3960-01	.9183	.1089-02	.1878-02	.1410	.9800	537.0
87	180.00	.22000	5.00	.2360-01	.1710-01	.2950-01	.9183	.8085-03	.1397-02	.1050	.7810	537.3
87	180.00	.30000	610.00	.4430-01	.3300-01	.5660-01	.9183	.1564-02	.2693-02	.2040	1.406	536.0
87	180.00	.35000	611.00	.2690-01	.2000-01	.3410-01	.9183	.9480-03	.1616-02	.1250	.8370	534.9
87	180.00	.39000	612.00	.2390-01	.1760-01	.3040-01	.9183	.8484-03	.1439-02	.1120	.7540	534.7
87	180.00	.37000	613.00	.2670-01	.1990-01	.3390-01	.9183	.9452-03	.1607-02	.1250	.8460	534.3
87	180.00	.38000	614.00	.2360-01	.1770-01	.3010-01	.9183	.8368-03	.1425-02	.1100	.7470	534.7
87	180.00	.39000	615.00	.2320-01	.1740-01	.2960-01	.9183	.8229-03	.1403-02	.1090	.7330	534.9
87	180.00	.39500	616.00	.2540-01	.1900-01	.3230-01	.9183	.8993-03	.1529-02	.1190	.8040	534.7
87	180.00	.39700	617.00	.2660-01	.1980-01	.3380-01	.9183	.9075-03	.1542-02	.1200	.8100	534.2
87	180.00	.39800	618.00	.2650-01	.1980-01	.3370-01	.9183	.9403-03	.1598-02	.1250	.8460	534.0
87	180.00	.40000	619.00	.2520-01	.1900-01	.3210-01	.9183	.8951-03	.1522-02	.1190	.8000	534.1
87	180.00	.40500	620.00	.2550-01	.1910-01	.3240-01	.9183	.9031-03	.1535-02	.1200	.8080	534.3
87	180.00	.41000	621.00	.2550-01	.1920-01	.3260-01	.9183	.9093-03	.1545-02	.1200	.8140	534.3
87	180.00	.41500	622.00	.2570-01	.2000-01	.3390-01	.9183	.9458-03	.1605-02	.1250	.8460	534.2
87	180.00	.42500	624.00	.2760-01	.2060-01	.3520-01	.9183	.9752-03	.1657-02	.1280	.8630	535.4
87	180.00	.43000	625.00	.2700-01	.1790-01	.3470-01	.9183	.9497-03	.1613-02	.1240	.8340	535.4
87	180.00	.43500	626.00	.2770-01	.2070-01	.3530-01	.9183	.9807-03	.1673-02	.1290	.8730	535.0
87	180.00	.44000	627.00	.2740-01	.1960-01	.3490-01	.9183	.9748-03	.1656-02	.1280	.8630	535.1
87	180.00	.44500	628.00	.2840-01	.1730-01	.3620-01	.9183	.9705-03	.1649-02	.1270	.8560	535.4
87	180.00	.45000	629.00	.2810-01	.1950-01	.2830-01	.9183	.9822-03	.1334-02	.1030	.7350	535.0
87	180.00	.45500	630.00	.2660-01	.1740-01	.2870-01	.9183	.9061-03	.1477-02	.1090	.7350	534.9
87	180.00	.46000	631.00	.2660-01	.1860-01	.2850-01	.9183	.9229-03	.1339-02	.1030	.6930	535.7
87	180.00	.46500	632.00	.2760-01	.1960-01	.2760-01	.9183	.9651-03	.1310-02	.1000+00	.6880	535.7
87	180.00	.47000	633.00	.2660-01	.1840-01	.2810-01	.9183	.9277-03	.1302-02	.9800-01	.6600	535.1
87	180.00	.47500	634.00	.2670-01	.1870-01	.2880-01	.9183	.9341-03	.1332-02	.1020	.6880	535.2
87	180.00	.48000	635.00	.2680-01	.1880-01	.2900-01	.9183	.9413-03	.1344-02	.1030	.6950	535.2
87	180.00	.48500	636.00	.2670-01	.1870-01	.2880-01	.9183	.9378-03	.1339-02	.1030	.6930	535.2
87	180.00	.49000	637.00	.2660-01	.1860-01	.2870-01	.9183	.9343-03	.1334-02	.1020	.6880	535.2
87	180.00	.49500	638.00	.2650-01	.1850-01	.2850-01	.9183	.9308-03	.1329-02	.1020	.6880	535.2
87	180.00	.50000	639.00	.2650-01	.1850-01	.2850-01	.9183	.9308-03	.1329-02	.1020	.6880	535.2

(RV7F17)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
87	180.00	.75000	639.00	.1870-01	.1400-01	.2360-01	.9183	.6640-03	.1119-02	.8900-01	.5780	532.7
87	180.00	.80000	640.00	.2470-01	.1850-01	.3130-01	.9183	.8781-03	.1484-02	.1170	.7390	533.2
87	180.00	.85000	641.00	.2140-01	.1610-01	.2720-01	.9183	.7614-03	.1287-02	.1020	.6610	533.2
87	180.00	.86000	642.00	.2350-01	.1760-01	.2990-01	.9183	.8358-03	.1416-02	.1110	.7170	533.7
87	180.00	.87000	643.00	.3510-01	.2630-01	.4460-01	.9183	.1244-02	.2113-02	.1650	1.070	534.1
87	180.00	.88000	644.00	.4130-01	.3090-01	.5260-01	.9183	.1463-02	.2491-02	.1930	1.264	534.6
87	180.00	.89000	645.00	.3510-01	.2630-01	.4450-01	.9183	.1246-02	.2108-02	.1660	1.069	533.5
87	180.00	.90000	646.00	.2780-01	.2090-01	.3500-01	.9183	.9909-03	.1659-02	.1340	.9060	531.4
87	180.00	.95000	649.00	.2410-01	.1780-01	.3100-01	.9183	.8437-03	.1467-02	.1080	.7640	538.5
87	191.25	.35000	650.00	.1810-01	.1350-01	.2300-01	.9183	.6388-03	.1090-02	.8400-01	.5680	535.1
87	191.25	.36000	651.00	.2610-01	.1950-01	.3320-01	.9183	.9219-03	.1573-02	.1210	.8230	535.0
87	191.25	.37000	652.00	.2420-01	.1800-01	.3080-01	.9183	.8552-03	.1458-02	.1130	.7610	534.9
87	191.25	.37500	653.00	.2510-01	.1870-01	.3200-01	.9183	.8878-03	.1514-02	.1170	.7930	535.0
87	191.25	.38000	654.00	.2520-01	.1880-01	.3210-01	.9183	.8926-03	.1520-02	.1180	.7990	534.7
87	191.25	.38500	655.00	.2450-01	.1830-01	.3120-01	.9183	.8693-03	.1481-02	.1150	.7780	534.7
87	191.25	.39000	656.00	.2480-01	.1850-01	.3150-01	.9183	.8784-03	.1494-02	.1160	.7830	534.8
87	191.25	.39500	657.00	.3340-01	.2500-01	.4240-01	.9183	.1187-02	.2011-02	.1580	1.070	533.8
87	191.25	.40000	658.00	.3210-01	.2400-01	.4080-01	.9183	.1139-02	.1932-02	.1510	1.028	534.0
87	191.25	.40500	659.00	.2460-01	.1840-01	.3120-01	.9183	.8710-03	.1481-02	.1150	.7840	534.3
87	191.25	.41000	660.00	.2360-01	.1770-01	.3010-01	.9183	.8369-03	.1425-02	.1100	.7490	534.7
87	191.25	.41500	661.00	.2230-01	.1670-01	.2840-01	.9183	.7910-03	.1348-02	.1040	.7050	534.8
87	191.25	.42000	662.00	.2440-01	.1820-01	.3110-01	.9183	.8627-03	.1473-02	.1130	.7690	535.2
87	191.25	.42500	663.00	.2400-01	.1790-01	.3050-01	.9183	.8479-03	.1445-02	.1120	.7600	534.9
87	191.25	.43000	664.00	.2380-01	.1780-01	.3030-01	.9183	.8414-03	.1436-02	.1110	.7600	535.0
87	191.25	.44000	665.00	.2410-01	.1800-01	.3070-01	.9183	.8532-03	.1457-02	.1120	.7650	535.2
87	191.25	.45000	666.00	.2490-01	.1860-01	.3180-01	.9183	.8814-03	.1506-02	.1160	.7900	535.3
87	191.25	.45500	667.00	.2360-01	.1760-01	.3010-01	.9183	.8362-03	.1428-02	.1100	.7500	535.2
87	191.25	.46000	668.00	.2270-01	.1690-01	.2880-01	.9183	.8025-03	.1370-02	.1050	.7220	535.2
87	191.25	.47000	669.00	.2310-01	.1720-01	.2940-01	.9183	.8168-03	.1394-02	.1070	.7370	535.1
87	191.25	.48000	670.00	.3820-01	.2860-01	.4870-01	.9183	.1354-02	.2308-02	.1780	1.225	534.8
87	191.25	.49000	671.00	.2510-01	.1870-01	.3210-01	.9183	.8847-03	.1520-02	.1150	.7880	536.3
87	191.25	.50000	672.00	.2180-01	.1620-01	.2780-01	.9183	.7692-03	.1316-02	.1010	.7050	535.6
87	191.25	.51000	673.00	.2510-01	.1870-01	.3210-01	.9183	.8872-03	.1522-02	.1160	.7470	536.0
87	191.25	.52000	674.00	.2990-01	.2160-01	.3700-01	.9183	.1022-02	.1755-02	.1330	.9110	536.2
87	191.25	.85000	676.00	.2130-01	.1600-01	.2700-01	.9183	.7566-03	.1279-02	.1010	.6420	533.3
87	191.25	.86000	677.00	.2080-01	.1560-01	.2640-01	.9183	.7378-03	.1251-02	.9800-01	.6300	533.9
87	191.25	.87000	678.00	.2090-01	.1560-01	.2650-01	.9183	.7396-03	.1257-02	.9880-01	.6350	534.3
87	191.25	.88000	679.00	.2180-01	.1630-01	.2770-01	.9183	.7714-03	.1312-02	.1020	.6690	534.5
87	191.25	.89000	680.00	.2410-01	.1810-01	.3070-01	.9183	.8556-03	.1456-02	.1130	.7530	534.5
87	191.25	.90000	681.00	.2500-01	.1870-01	.3160-01	.9183	.8871-03	.1499-02	.1180	.8030	533.2
87	191.25	.91000	682.00	.1580-01	.1190-01	.1990-01	.9183	.5654-03	.9435-03	.7700-01	.5650	530.7
87	191.25	.92600	683.00	.2480-01	.1860-01	.3160-01	.9183	.8806-03	.1497-02	.1160	.8580	534.4
87	191.25	.95000	684.00	.3260-01	.2410-01	.4190-01	.9183	.1144-02	.1986-02	.1470	1.067	538.1

ORIGINAL PAGE IS
OF POOR QUALITY

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F17)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
87	197.00	.33000	685.00	.1C00-01	.1200-01	.2040-01	.9183	.5680-03	.9657-03	.7500-01	.5080	534.4
87	197.00	.34000	686.00	.1930-01	.1440-01	.2460-01	.9183	.6844-03	.1165-02	.9000-01	.6110	534.7
87	197.00	.35000	687.00	.2040-01	.1520-01	.2590-01	.9183	.7219-03	.1229-02	.9500-01	.6440	534.7
87	197.00	.36000	688.00	.2310-01	.1730-01	.2940-01	.9183	.8195-03	.1395-02	.1080	.7320	534.6
87	197.00	.37000	689.00	.2390-01	.1790-01	.3040-01	.9183	.8465-03	.1441-02	.1120	.7550	534.7
87	197.00	.37500	690.00	.1240-01	.9300-02	.1570-01	.9183	.4385-03	.7460-03	.5800-01	.3930	534.5
87	197.00	.38000	691.00	.2300-01	.1710-01	.2930-01	.9183	.8117-03	.1390-02	.1060	.7180	535.7
87	197.00	.60000	692.00	.2900-01	.2160-01	.3690-01	.9183	.1024-02	.1750-02	.1350	.9730	535.3
87	197.00	.70000	693.00	.3010-01	.2250-01	.3830-01	.9183	.1065-02	.1816-02	.1400	.9570	534.9
87	197.00	.80000	694.00	.1890-01	.1420-01	.2400-01	.9183	.6720-03	.1137-02	.8900-01	.5660	533.5
87	197.00	.87000	695.00	.1900-01	.14 0-01	.2420-01	.9183	.6738-03	.1145-02	.8930-01	.5720	534.3
87	197.00	.92600	696.00	.2420-01	.181 -01	.3070-01	.9183	.8566-03	.1457-02	.1130	.8340	534.5
264	209.80	.15000-01	697.00	.2561	.1852	.3071	.9283	.1024-01	.1698-01	.0000	.0000	539.9
88	209.80	.30000-01	698.00	.2272	.1610	.2334	.9468	.7638-02	.1107-01	.8750	5.935	552.7
88	209.80	.50000-1.	699.00	.3395	.2406	.3630	.9421	.1141-01	.1722-01	1.307	8 281	552.7
88	209.80	.70000-01	700.00	.3565	.2388	.4124	.9363	.1132-01	.1956-01	1.144	7.658	566.2
88	209.80	.10000+00	701.00	.1456	.1060	.1727	.9291	.5027-02	.8191-02	.6160	3.932	544.6
88	209.80	.15000	702.00	.6610-01	.4900-01	.8300-01	.9211	.2323-02	.3335-02	.2990	2.145	538.7
88	209.80	.20000	703.00	.3030-01	.2280-01	.3830-01	.9183	.1060-02	.1817-02	.1450	.9730	532.8
88	209.80	.30000	704.00	.6500-02	.4900-02	.8200-02	.9183	.2300-03	.38 0-03	.3100-01	.2210	532.8
88	209.80	.35000	705.00	.1210-01	.9200-02	.1530-01	.9183	.4347-03	.7256-03	.5900-01	.4000	531.2
88	209.80	.37500	706.00	.1780-01	.1340-01	.2240-01	.9183	.6359-03	.1063-02	.8600-01	.5970	531.5
88	209.80	.50000	707.00	.2830-01	.2160-01	.3680-01	.9183	.1024-02	.1744-02	.1350	.9300	535.3
88	209.80	.60000	708.00	.4780-01	.3620-01	.6010-01	.9183	.1714-02	.2851-02	.2340	1.507	530.4
88	209.80	.70000	709.00	.2220-01	.1670-01	.2800-01	.9183	.7926-03	.1329-02	.1070	.6880	532.1
88	209.80	.80000	710.00	.2270-01	.1730-01	.2850-01	.9183	.8181-03	.1352-02	.1130	.7100	529.1
88	209.80	.87000	711.00	.2140-01	.1620-01	.2680-01	.9183	.7665-03	.1273-02	.1050	.6700	530.2
88	209.80	.92600	712.00	.1810-01	.1360-01	.2280-01	.9183	.6460-03	.1083-02	.8700-01	.6390	532.1
88	217.70	.30000-01	714.00	.2093	.1489	.2157	.9463	.7063-02	.1023-01	.8170	5.548	551.5
88	217.70	.50000-01	715.00	.3010	.2148	.3225	.9417	.1019-01	.1530-01	1.186	7.720	560.8
88	217.70	.70000-01	716.00	.3345	.2247	.3680	.9359	.1065-01	.1840-01	1.283	7.323	565.6
88	217.70	.10000+00	717.00	.1370	.1002	.1623	.9287	.4751-02	.7698-02	.5900	3.834	543.0
88	217.70	.15000	718.00	.6060-01	.4940-01	.8350-01	.9209	.2344-02	.3952-02	.3030	2.227	538.0
88	217.70	.20000	719.00	.2890-01	.2170-01	.3630-01	.9183	.1028-02	.1723-02	.1390	.9430	532.1
88	217.70	.30000	720.00	.8000-02	.6000-02	.1020-01	.9183	.2851-03	.4816-03	.3800-01	.2770	532.9
88	217.70	.35000	721.00	.1030-01	.7800-02	.1290-01	.9183	.3682-03	.6139-03	.5000-01	.3500	531.0
88	217.70	.37500	722.00	.1310-01	.9900-02	.1650-01	.9183	.4700-03	.7844-03	.6400-01	.4470	531.2
88	217.70	.50000	723.00	.2580-01	.1930-01	.3290-01	.9183	.9185-03	.1559-02	.1210	.8430	534.9
88	217.70	.60000	724.00	.2700-01	.2030-01	.3400-01	.9183	.9643-03	.1611-02	.1310	.8440	531.4
88	217.70	.70000	725.00	.2440-01	.1830-01	.3080-01	.9183	.8688-03	.1461-02	.1170	.7480	532.7
88	217.70	.80000	726.00	.2700-01	.2040-01	.3390-01	.9183	.9631-03	.1618-02	.1330	.9430	530.1
88	217.70	.87000	727.00	.2470-01	.1870-01	.3110-01	.9183	.8859-03	.1478-02	.1210	.7790	530.8
88	217.70	.92600	728.00	.1510-01	.1140-01	.1900-01	.9183	.5387-03	.9033-03	.7300-01	.5330	532.1

IHN1(AEDC V41A-A4A) T3 NIPPLE NOSE ET

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = 5.000 BETA = -6.000 GRIT = 3.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
57	5.500	4.969	5.030	6.000	-50.00	177.7	.1910	742.0	105.2	4.044	2765.	.1523-03
58	5.500	4.956	5.050	6.000	-50.00	177.8	.1910	743.0	105.5	4.047	2768.	.1521-03
59	5.500	4.955	5.040	6.000	-50.00	177.7	.1910	743.0	105.4	4.045	2767.	.1520-03
259	5.500	4.981	5.030	6.000	-50.00	178.3	.1920	742.0	105.3	4.057	2765.	.1527-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
57	.8472-07	.4475-01	.1364-01
58	.8490-07	.4477-01	.1365-01
59	.8488-07	.4476-01	.1366-01
259	.8476-07	.4482-01	.1362-01

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
58	.00000	.30000-02	730.00	.4533	.3446	.3979	.9721	.1543-01	.1781-01	2.392	16.09	588.4
58	.00000	.10300-01	731.00	.1774	.1434	.2132	.9146	.6420-02	.9545-02	1.245	8.562	549.6
59	.00000	.15000-01	732.00	.1630	.1316	.1959	.9146	.5894-02	.8772-02	1.141	7.748	549.9
59	.00000	.20000-01	733.00	.3038	.2441	.2815	.9587	.1093-01	.1260-01	1.917	13.02	588.1
58	.00000	.25000-01	734.00	.4939	.3666	.4425	.9667	.1641-01	.1991-01	2.386	15.68	599.3
58	.00000	.30000-01	735.00	.5562	.4153	.5046	.9651	.1859-01	.2259-01	2.727	18.21	596.8
58	.00000	.40000-01	737.00	.3411	.2662	.3169	.9636	.1192-01	.1419-01	2.018	12.99	574.1
59	.00000	.45000-01	738.00	.3269	.2559	.3068	.9619	.1146-01	.1374-01	1.962	12.83	572.2
58	.00000	.60000-01	739.00	.4158	.3139	.3987	.9566	.1406-01	.1765-01	2.133	14.02	591.7
56	.00000	.70000-01	740.00	.4194	.3056	.4095	.9532	.1358-01	.1834-01	1.876	12.31	606.4
58	.00000	.80000-01	741.00	.3645	.2776	.3646	.9500	.1243-01	.1632-01	1.935	13.79	587.7
58	.00000	.10000+00	742.00	.2904	.2299	.3051	.9438	.1029-01	.1356-01	1.746	11.50	573.8
58	.00000	.12500	743.00	.1952	.1519	.2114	.9366	.6802-02	.9465-02	1.139	8.163	575.9
58	.00000	.15000	744.00	.1574	.1241	.1761	.9302	.5555-02	.7893-02	.9760	6.714	567.8
58	.00000	.17500	745.00	.1050	.8390-01	.1204	.9246	.3759-02	.5391-02	.6960	5.199	558.3
58	.00000	.20000	746.00	.7450-01	.6010-01	.8710-01	.9199	.2692-02	.3699-02	.5180	3.696	551.1

(IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F17)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
58	.00000	.21500	747.00	.6220-01	.5030-01	.7350-01	.9176	.2252-02	.3289-02	.4370	3.027	549.2
58	.00000	.23000	748.00	.4990-01	.4040-01	.5960-01	.9157	.1810-02	.2667-02	.3530	2.607	548.3
58	.00000	.24000	749.00	.4370-01	.3540-01	.5240-01	.9146	.1585-02	.2345-02	.3110	2.342	547.5
58	.00000	.25000	750.00	.2290-01	.1860-01	.2740-01	.9146	.8339-03	.1227-02	.1650	1.338	545.2
58	.00000	.30000	751.00	.5020-01	.4060-01	.6010-01	.9146	.1819-02	.2693-02	.3560	2.332	547.9
58	.00000	.35000	752.00	.5070-01	.4120-01	.6060-01	.9146	.1844-02	.2715-02	.3650	2.309	545.5
58	.00000	.40000	753.00	.4630-01	.3760-01	.5530-01	.9146	.1684-02	.2476-02	.3340	2.152	544.9
58	.00000	.50000	754.00	.4570-01	.3700-01	.5470-01	.9146	.1656-02	.2451-02	.3240	2.121	547.7
58	.00000	.60000	755.00	.4320-01	.3500-01	.5180-01	.9146	.1569-02	.2319-02	.3080	1.974	547.1
58	.00000	.70000	756.00	.3900-01	.3150-01	.4690-01	.9146	.1410-02	.2101-02	.2720	1.793	550.5
58	.00000	.80000	757.00	.3800-01	.3070-01	.4570-01	.9146	.1375-02	.2044-02	.2670	1.670	549.4
58	.00000	.90000	758.00	.2370-01	.1910-01	.2840-01	.9146	.8573-03	.1273-02	.1670	1.076	549.1
58	55.000	.22000	759.00	.7200-01	.5800-01	.8460-01	.9193	.2596-02	.3789-02	.4940	3.666	553.0
58	55.000	.25000	760.00	.3390-01	.2740-01	.4030-01	.9164	.1228-02	.1807-02	.2380	1.864	549.4
58	55.000	.27000	761.00	.4600-01	.3700-01	.5510-01	.9164	.1657-02	.2466-02	.3140	2.328	553.9
58	55.000	.30000	762.00	.6850-01	.5530-01	.8160-01	.9164	.2477-02	.3054-02	.4780	2.867	550.6
58	55.000	.32000	763.00	.6510-01	.5260-01	.7740-01	.9164	.2357-02	.3467-02	.4580	2.704	549.3
58	55.000	.34000	764.00	.6620-01	.5360-01	.7870-01	.9164	.2399-02	.3525-02	.4675	2.768	548.8
58	55.000	.36000	765.00	.6080-01	.4930-01	.7220-01	.9164	.2205-02	.3234-02	.4310	2.588	548.1
58	55.000	.38000	766.00	.5770-01	.4670-01	.6850-01	.9164	.2091-02	.3065-02	.4090	2.483	547.9
58	55.000	.40000	767.00	.5760-01	.4670-01	.6840-01	.9164	.2089-02	.3061-02	.4090	2.555	547.7
58	67.500	.23000	768.00	.6910-01	.5560-01	.8210-01	.9175	.2491-02	.3675-02	.4740	3.518	553.1
58	67.500	.25000	769.00	.3000-01	.2430-01	.3570-01	.9162	.1087-02	.1600-02	.2110	1.641	549.1
58	67.500	.27000	770.00	.5210-01	.4190-01	.6240-01	.9162	.1875-02	.2796-02	.3550	2.577	554.3
58	67.500	.29000	771.00	.4530-01	.3660-01	.5400-01	.9162	.1640-02	.2418-02	.3180	1.965	549.8
58	67.500	.30000	772.00	.6220-01	.5020-01	.7420-01	.9162	.2248-02	.3324-02	.4330	2.638	551.0
58	67.500	.31000	773.00	.6500-01	.5250-01	.7750-01	.9162	.2352-02	.3472-02	.4550	2.752	550.1
58	67.500	.32000	774.00	.6240-01	.5040-01	.7420-01	.9162	.2258-02	.3324-02	.4390	2.637	549.0
58	67.500	.32500	775.00	.5920-01	.4790-01	.7040-01	.9162	.2143-02	.3152-02	.4170	2.512	548.8
58	67.500	.33000	776.00	.5940-01	.4810-01	.7070-01	.9162	.2153-02	.3166-02	.4200	2.534	548.6
58	67.500	.33500	777.00	.6050-01	.4890-01	.7190-01	.9162	.2191-02	.3219-02	.4280	2.585	548.2
58	67.500	.34000	778.00	.6160-01	.4990-01	.7330-01	.9162	.2233-02	.3280-02	.4360	2.634	548.2
58	67.500	.34500	779.00	.6200-01	.5020-01	.7370-01	.9162	.2247-02	.3300-02	.4390	2.660	548..
58	67.500	.35000	780.00	.5960-01	.4830-01	.7090-01	.9162	.2162-02	.3173-02	.4230	2.570	547.8
58	67.500	.35500	781.00	.5660-01	.4590-01	.6740-01	.9162	.2054-02	.3015-02	.4010	2.444	548.1
58	67.500	.36000	782.00	.5850-01	.4730-01	.6950-01	.9162	.2120-02	.3112-02	.4140	2.524	548.0
58	67.500	.36500	783.00	.6030-01	.4890-01	.7170-01	.9162	.2189-02	.3209-02	.4290	2.609	547.3
58	67.500	.37000	784.00	.5840-01	.4730-01	.6940-01	.9162	.2119-02	.3106-02	.4160	2.541	547.3
58	67.500	.37500	785.00	.5090-01	.4120-01	.6040-01	.9162	.1846-02	.2706-02	.3620	2.232	547.2
58	67.500	.38000	786.00	.5560-01	.4510-01	.6610-01	.9162	.2018-02	.2960-02	.3950	2.439	547.7
58	67.500	.39000	787.00	.5640-01	.4570-01	.6710-01	.9162	.2047-02	.3004-02	.4000	2.479	547.9
58	67.500	.40000	788.00	.6280-01	.5090-01	.7470-01	.9162	.2278-02	.3343-02	.4460	2.784	547.8
59	67.500	.50000	789.00	.5530-01	.4460-01	.6610-01	.9162	.1998-02	.2959-02	.3830	2.433	551.5

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F17)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
259	67.500	.60000	790.00	.8200-01	.5860-01	.9830-01	.9293	.3248-02	.5447-02	.3870	2.523	561.8
259	67.500	.70000	791.00	.8800-01	.6080-01	.1079	.9293	.3371-02	.5984-02	.3720	2.595	5 3.7
259	67.500	.80000	792.00	.9450-01	.6590-01	.1153	.9293	.3652-02	.6389-02	.4110	2.552	568.6
259	67.500	.90000	793.00	.6470-01	.4280-01	.8210-01	.9293	.2373-02	.4553-02	.2390	1.514	580.4
259	78.000	.27000	794.00	.7020-01	.4960-01	.8500-01	.9290	.2750-02	.4712-02	.3190	2.256	565.0
259	78.000	.29000	795.00	.1090	.7640-01	.1328	.9290	.4235-02	.7364-02	.4820	2.938	567.3
59	78.000	.30000	796.00	.6220-01	.5030-01	.7430-01	.9158	.2252-02	.3325-02	.4370	2.644	549.3
59	78.000	.31000	797.00	.6040-01	.4890-01	.7190-01	.9158	.2187-02	.3220-02	.4270	2.585	548.2
59	78.000	.32000	798.00	.6120-01	.4960-01	.7290-01	.9158	.2220-02	.3263-02	.4350	2.622	547.3
59	78.000	.32500	799.00	.6330-01	.5130-01	.7530-01	.9158	.2295-02	.3371-02	.4500	2.721	547.1
59	78.000	.33000	800.00	.6120-01	.4960-01	.7280-01	.9158	.2222-02	.3258-02	.4370	2.645	546.4
59	78.000	.33500	801.00	.6440-01	.5220-01	.7660-01	.9158	.2338-02	.3430-02	.4600	2.779	546.7
59	78.000	.34000	802.00	.5830-01	.4740-01	.6940-01	.9158	.2120-02	.3105-02	.4190	2.532	545.8
59	78.000	.34500	803.00	.5820-01	.4730-01	.6920-01	.9158	.2116-02	.3098-02	.4180	2.536	545.7
59	78.000	.35000	804.00	.5840-01	.4740-01	.6940-01	.9158	.2123-02	.3107-02	.4200	2.545	545.7
59	78.000	.35500	805.00	.5890-01	.4780-01	.6990-01	.9158	.2141-02	.3130-02	.4240	2.572	545.2
59	78.000	.36000	806.00	.8240-01	.6690-01	.9780-01	.9158	.2996-02	.4378-02	.5940	3.615	545.3
59	78.000	.36500	807.00	.5420-01	.4400-01	.6440-01	.9158	.1971-02	.2882-02	.3900	2.381	545.2
59	78.000	.37000	808.00	.5490-01	.4460-01	.6520-01	.9158	.1995-02	.2917-02	.3950	2.416	545.3
59	78.000	.37500	809.00	.5420-01	.4400-01	.6430-01	.9158	.1969-02	.2879-02	.3900	2.388	545.1
59	78.000	.38000	810.00	.5510-01	.4480-01	.6550-01	.9158	.2005-02	.2932-02	.3970	2.441	545.3
59	78.000	.39000	811.00	.5610-01	.4550-01	.6670-01	.9158	.2038-02	.2986-02	.4020	2.479	546.0
59	78.000	.40000	812.00	.5610-01	.4560-01	.6670-01	.9158	.2041-02	.2985-02	.4040	2.492	545.3
259	90.000	.40000-01	985.00	.3452	.2656	.3165	.9653	.1191-01	.1417-01	1.918	12.26	581.1
259	90.000	.50000-01	986.00	.4220	.3226	.3935	.9617	.1446-01	.1764-01	2.278	14.46	584.6
259	90.000	.60000-01	987.00	.4143	.3061	.3914	.9583	.1372-01	.1754-01	1.949	12.49	600.1
259	90.000	.80000-01	989.00	.2601	.1942	.2573	.9516	.8705-02	.1153-01	1.275	8.815	595.7
259	90.000	.15000	991.00	.1688	.1304	.1895	.9315	.5845-02	.8492-02	.9530	6.886	579.1
59	90.000	.20000	813.00	.5690-01	.4610-01	.6760-01	.9163	.2064-02	.3025-02	.4040	2.934	547.6
59	90.000	.24000	814.00	.4660-01	.3770-01	.5580-01	.9152	.1689-02	.2496-02	.3300	2.665	548.2
59	90.000	.27000	816.00	.4560-01	.3670-01	.5470-01	.9152	.1645-02	.2450-02	.3150	2.237	551.5
59	90.000	.29000	817.00	.4710-01	.3820-01	.5630-01	.9152	.1709-02	.2522-02	.3340	2.077	547.6
59	90.000	.30000	818.00	.5570-01	.4510-01	.6660-01	.9152	.2019-02	.2982-02	.3940	2.407	548.1
59	90.000	.31000	819.00	.5960-01	.4830-01	.7120-01	.9152	.2164-02	.3187-02	.4250	2.577	546.9
59	90.000	.32000	820.00	.5760-01	.4670-01	.6870-01	.9152	.2091-02	.3075-02	.4120	2.490	546.3
59	90.000	.32500	821.00	.5540-01	.4500-01	.6610-01	.9152	.2012-02	.2960-02	.3980	2.400	545.8
59	90.000	.33000	822.00	.5530-01	.4490-01	.6590-01	.9152	.2010-02	.2948-02	.3990	2.412	545.0
59	90.000	.33500	823.00	.5590-01	.4550-01	.6660-01	.9152	.2035-02	.2981-02	.4040	2.452	544.7
59	90.000	.34000	824.00	.5770-01	.4690-01	.6870-01	.9152	.2098-02	.3074-02	.4170	2.516	544.6
59	90.000	.34500	825.00	.5640-01	.4580-01	.6710-01	.9152	.2051-02	.3004-02	.4080	2.467	544.6
59	90.000	.35000	826.00	.5710-01	.4640-01	.6790-01	.9152	.2077-02	.3041-02	.4130	2.502	544.3
59	90.000	.36000	828.00	.5740-01	.4670-01	.6840-01	.9152	.2089-02	.3060-02	.4150	2.505	544.6
59	90.000	.37000	830.00	.5570-01	.4540-01	.6630-01	.9152	.2031-02	.2969-02	.4050	2.461	543.7

(RV7F17)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
59	90.000	.37500	831.00	.5550-01	.4520-01	.6610-01	.9152	.2023-02	.2957-02	.4040	2.467	543.6
59	90.000	.38000	832.00	.5140-01	.4180-01	.6120-01	.9152	.1871-02	.2737-02	.3730	2.277	544.0
59	90.000	.39000	833.00	.5240-01	.4260-01	.6240-01	.9152	.1907-02	.2791-02	.3800	2.343	544.2
59	90.000	.40000	834.00	.5510-01	.4480-01	.6560-01	.9152	.2007-02	.2935-02	.4000	2.476	543.9
59	90.000	.50000	835.00	.4680-01	.3790-01	.5600-01	.9152	.1696-02	.2507-02	.3310	2.089	548.3
59	90.000	.60000	836.00	.5250-01	.4270-01	.6240-01	.9152	.1911-02	.2795-02	.3810	2.541	543.9
59	90.000	.70000	837.00	.4780-01	.3890-01	.5710-01	.9152	.1738-02	.2555-02	.3430	2.413	546.1
59	90.000	.80000	838.00	.4470-01	.3630-01	.5340-01	.9152	.1626-02	.2389-02	.3210	1.995	545.9
59	90.000	.90000	839.00	.2360-01	.1900-01	.2830-01	.9152	.8520-03	.1265-02	.1650	1.050	550.1
59	112.50	.23000	840.00	.4530-01	.3680-01	.5410-01	.9148	.1648-02	.2420-02	.3270	2.641	544.7
59	112.50	.25000	841.00	.3020-01	.2450-01	.3620-01	.9139	.1098-02	.1618-02	.2180	1.696	544.3
59	112.50	.27000	842.00	.2190-01	.1780-01	.2630-01	.9139	.7978-03	.1176-02	.1590	1.112	544.4
59	112.50	.30000	843.00	.5000-01	.4070-01	.5990-01	.9139	.1820-02	.2683-02	.3620	2.158	544.3
59	112.50	.33000	844.00	.3730-01	.3030-01	.4470-01	.9139	.1357-02	.2000-02	.2700	1.631	544.2
59	112.50	.35000	845.00	.4210-01	.3430-01	.5040-01	.9139	.1537-02	.2255-02	.3090	1.896	542.4
59	112.50	.37000	846.00	.3710-01	.3020-01	.4430-01	.9139	.1353-02	.1984-02	.2720	1.681	542.2
59	112.50	.40000	847.00	.4590-01	.3740-01	.5470-01	.9139	.1676-02	.2450-02	.3390	2.120	540.9
59	112.50	.45000	848.00	.4120-01	.3360-01	.4920-01	.9139	.1505-02	.2204-02	.3040	1.915	541.4
59	112.50	.50000	849.00	.4400-01	.3580-01	.5280-01	.9139	.1604-02	.2362-02	.3200	2.060	543.9
59	112.50	.55000	850.00	.3530-01	.2870-01	.4230-01	.9139	.1286-02	.1891-02	.2570	1.721	543.4
59	112.50	.60000	851.00	.4060-01	.3320-01	.4850-01	.9139	.1486-02	.2170-02	.3020	2.027	540.4
59	112.50	.65000	852.00	.4140-01	.3390-01	.4940-01	.9139	.1516-02	.2212-02	.3090	2.107	539.8
59	112.50	.70000	853.00	.4210-01	.3440-01	.5030-01	.9139	.1538-02	.2252-02	.3100	2.182	541.6
59	112.50	.75000	854.00	.3680-01	.3010-01	.4390-01	.9139	.1345-02	.1964-02	.2730	1.777	540.3
59	112.50	.80000	855.00	.3700-01	.3030-01	.4400-01	.9139	.1357-02	.1972-02	.2780	1.819	538.1
59	112.50	.90000	856.00	.1950-01	.1590-01	.2330-01	.9139	.7104-03	.1044-02	.1420	.9250	543.0
59	125.40	.84000	857.00	.2630-01	.2160-01	.3140-01	.9133	.9657-03	.1404-02	.1990	1.237	537.0
59	125.40	.85000	858.00	.2750-01	.2250-01	.3280-01	.9133	.1008-02	.1468-02	.2080	1.296	537.4
59	125.40	.86000	859.00	.2760-01	.2260-01	.3300-01	.9133	.1013-02	.1476-02	.2080	1.309	538.0
59	125.40	.87000	860.00	.2700-01	.2210-01	.3220-01	.9133	.9876-03	.1441-02	.2020	1.277	538.4
59	125.40	.88000	861.00	.2810-01	.2300-01	.3360-01	.9133	.1031-02	.1505-02	.2110	1.329	539.0
59	125.40	.89000	862.00	.2940-01	.2410-01	.3520-01	.9133	.1077-02	.1575-02	.2200	1.393	539.5
59	125.40	.90000	863.00	.2330-01	.1910-01	.2790-01	.9133	.8534-03	.1248-02	.1740	1.110	539.4
59	125.40	.91000	864.00	.1220-01	.1000-01	.1460-01	.9133	.4491-03	.6534-03	.9300-01	.6760	537.3
59	125.40	.92600	865.00	.1510-01	.1230-01	.1810-01	.9133	.5516-03	.8082-03	.1120	.8140	540.4
59	129.30	.80000	866.00	.3670-01	.3010-01	.4380-01	.9132	.1349-02	.1960-02	.2790	1.763	536.4
59	129.30	.81000	867.00	.2840-01	.2330-01	.3390-01	.9132	.1043-02	.1517-02	.2160	1.354	536.6
59	129.30	.82000	868.00	.2620-01	.2150-01	.3130-01	.9132	.9643-03	.1400-02	.2000	1.256	536.0
59	129.30	.83000	869.00	.2520-01	.2070-01	.3010-01	.9132	.9262-03	.1345-02	.1920	1.208	536.2
59	135.00	.40000-01	870.00	.3291	.2564	.3182	.9561	.1148-01	.1424-01	1.931	12.24	575.1
59	135.00	.50000-01	871.00	.3032	.2396	.2991	.9526	.1072-01	.1339-01	1.901	12.04	566.0
59	135.00	.60000-01	872.00	.3342	.2578	.3358	.9492	.1154-01	.1503-01	1.876	12.25	580.7
59	135.00	.70000-01	873.00	.3789	.2866	.3891	.9459	.1283-01	.1742-01	1.957	13.03	590.7

(IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
59	135.00	.10000+00	875.00	.2334	.1850	.2505	.9369	.8282-02	.1121-01	1.486	9.668	563.9
59	135.00	.15000	876.00	.1284	.1026	.1472	.9246	.4591-02	.6587-02	.8490	6.176	558.4
59	135.00	.20000	877.00	.6200-01	.5040-01	.7330-01	.9162	.2256-02	.3282-02	.4500	3.037	543.9
59	135.00	.35000	878.00	.4170-01	.3410 01	.4990-01	.9131	.1525-02	.2231-02	.3120	1.943	539.1
59	135.00	.40000	879.00	.3440-01	.2820-01	.4120-01	.9131	.1262-02	.1844-02	.2580	1.644	538.6
59	135.00	.50000	880.00	.2940-01	.2400-01	.3520-01	.9131	.1072-02	.1577-02	.2160	1.490	541.4
59	135.00	.55000	881.00	.2530-01	.2060-01	.3030-01	.9131	.9239-03	.1355-02	.1880	1.255	540.0
59	135.00	.60000	882.00	.2870-01	.2350-01	.3430-01	.9131	.1052-02	.1535-02	.2160	1.450	537.9
59	135.00	.65000	883.00	.2840-01	.2320-01	.3390-01	.9131	.1040-02	.1517-02	.2140	1.466	537.6
59	135.00	.70000	884.00	.2620-01	.2140-01	.3130-01	.9131	.9587-03	.1403-02	.1960	1.396	539.2
59	135.00	.75000	885.00	.2220-01	.1820-01	.2660-01	.9131	.8139-03	.1190-02	.1660	1.053	538.9
259	135.00	.50000	886.00	.9460-01	.6650-01	.1164	.9278	.3682-02	.6449-02	.4220	2.625	566.4
259	135.00	.84000	887.00	.7590-01	.5980-01	.9460-01	.9130	.2678-02	.4234-02	.0000	.0000	244.7
259	135.00	.85000	888.00	.2160-01	.1740-01	.2640-01	.9131	.7790-03	.1182-02	.1470	.9310	553.0
259	135.00	.87000	890.00	.2560-01	.2060-01	.3120-01	.9131	.9220-03	.1401-02	.1740	1.103	553.3
259	135.00	.88000	891.00	.2340-01	.1880-01	.2860-01	.9131	.8407-03	.1280-02	.1580	1.006	554.3
259	135.00	.89000	892.00	.2130-01	.1710-01	.2610-01	.9131	.7665-03	.1171-02	.1430	.9270	555.4
259	135.00	.91000	894.00	.9900-02	.7300-02	.1210-01	.9131	.3555-03	.5417-03	.6700-01	.4850	554.5
259	135.00	.92600	895.00	.1390-01	.1110-01	.1700-01	.9131	.4974-03	.7612-03	.9300-01	.6700	556.0
259	135.00	.95000	896.00	.2750-01	.2200-01	.3370-01	.9131	.9863-03	.1509-02	.1840	1.321	555.9
259	135.00	.42000	897.00	.3030-01	.2450-01	.3680-01	.9130	.1099-02	.1647-02	.2130	1.371	548.1
259	142.30	.43500	898.00	.3120-01	.2530-01	.3780-01	.9130	.1134-02	.1694-02	.2220	1.385	546.8
259	142.30	.45000	899.00	.2790-01	.2260-01	.3380-01	.9130	.1012-02	.1513-02	.1970	1.290	547.3
259	142.30	.50000	900.00	.2630-01	.2130-01	.3200-01	.9130	.9532-03	.1435-02	.1830	1.220	549.8
259	142.30	.60000	901.00	.2440-01	.1970-01	.2950-01	.9130	.8840-03	.1322-02	.1720	1.143	547.5
259	142.30	.70000	902.00	.2440-01	.1960-01	.2970-01	.9130	.8785-03	.1332-02	.1670	1.134	552.6
259	142.30	.80000	903.00	.2510-01	.2020-01	.3060-01	.9130	.9050-03	.1372-02	.1720	1.089	552.4
259	142.30	.87000	904.00	.2000-01	.1610-01	.2440-01	.9130	.7205-03	.1094-02	.1360	.8580	553.1
259	154.98	.42000	905.00	.2930-01	.2370-01	.3540-01	.9130	.1061-02	.1587-02	.2070	1.333	547.4
259	154.98	.43500	906.00	.2690-01	.2180-01	.3250-01	.9130	.9766-03	.1458-02	.1910	1.240	546.6
259	154.98	.45000	907.00	.2610-01	.2120-01	.3160-01	.9130	.9483-03	.1418-02	.1850	1.206	547.2
259	154.98	.50000	908.00	.2380-01	.1920-01	.2890-01	.9130	.8622-03	.1295-02	.1660	1.190	549.1
259	154.98	.93500	913.00	.3650-01	.2910-01	.4480-01	.9130	.1306-02	.2007-02	.2420	1.747	557.2
259	154.98	.94500	914.00	.3190-01	.2550-01	.3920-01	.9130	.1142-02	.1755-02	.2110	1.512	557.3
259	157.50	.70000-01	918.00	.2989	.2270	.3165	.9412	.1017-01	.1418-01	1.570	10.70	587.9
259	157.50	.80000-01	919.00	.2816	.2157	.3035	.9382	.9667-02	.1360-01	1.532	10.26	583.7
259	157.50	.10000+00	920.00	.1820	.1430	.2011	.9326	.6409-02	.9012-02	1.110	7.333	569.0
259	157.50	.20000	922.00	.4480-01	.3620-01	.5390-01	.9144	.1620-02	.2416-02	.3130	2.082	549.1
259	157.50	.42000	923.00	.2590-01	.2100-01	.3130-01	.9130	.9404-03	.1402-02	.1840	1.204	546.1
259	157.50	.43500	924.00	.2330-01	.1890-01	.2810-01	.9130	.8455-03	.1259-02	.1660	1.089	545.5
259	157.50	.45000	925.00	.2330-01	.1890-01	.2820-01	.9130	.8489-03	.1264-02	.1670	1.102	545.7
259	157.50	.85000	926.00	.1170-01	.9400-02	.1420-01	.9130	.4227-03	.6380-03	.8100-01	.5220	550.9
259	157.50	.86000	927.00	.1080-01	.8700-02	.1310-01	.9130	.3890-03	.5873-03	.7400-01	.4820	550.9

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
259	157.50	.87000	928.00	.9700-02	.7800-02	.1180-01	.9130	.3488-03	.5272-03	.6700-01	.4320	551.4
259	157.50	.88000	929.00	.1280-01	.1030-01	.1570-01	.9130	.4627-03	.7015-03	.8800-01	.5730	552.5
259	157.50	.89000	930.00	.1570-01	.1260-01	.1920-01	.9130	.5641-03	.8600-03	.1060	.6940	554.6
259	157.50	.90000	931.00	.1530-01	.1230-01	.1880-01	.9130	.5509-03	.8404-03	.1030	.6930	554.8
259	157.50	.91000	932.00	.1390-01	.1110-01	.1700-01	.9130	.4994-03	.7627-03	.9300-01	.6800	555.2
259	157.50	.92600	933.00	.2740-01	.2190-01	.3360-01	.9130	.9815-03	.1504-02	.1820	1.324	556.4
259	163.12	.41500	934.00	.2290-01	.1860-01	.2770-01	.9130	.8353-03	.1241-02	.1650	1.072	544.6
259	163.12	.42000	935.00	.2410-01	.1950-01	.2910-01	.9130	.8747-03	.1302-02	.1720	1.127	545.5
259	163.12	.43000	937.00	.2270-01	.1840-01	.2740-01	.9130	.8234-03	.1227-02	.1620	1.062	545.8
259	163.12	.44000	938.00	.2340-01	.1900-01	.2830-01	.9130	.8513-03	.1268-02	.1670	1.095	545.8
259	163.12	.44500	939.00	.2070-01	.1680-01	.2500-01	.9130	.7538-03	.1122-02	.1480	.9860	545.4
259	163.12	.45000	940.00	.2140-01	.1730-01	.2580-01	.9130	.7763-03	.1156-02	.1530	1.014	545.7
259	163.12	.50000	941.00	.1930-01	.1560-01	.2340-01	.9130	.6996-03	.1047-02	.1360	.9240	547.5
259	163.12	.60000	942.00	.1810-01	.1470-01	.2190-01	.9130	.6574-03	.9798-03	.1290	.8320	546.0
259	163.12	.70000	943.00	.1410-01	.1140-01	.1710-01	.9130	.5096-03	.7686-03	.9800-01	.6690	550.6
259	163.12	.80000	944.00	.1170-01	.9500-02	.1430-01	.9130	.4238-03	.6398-03	.8100-01	.5280	551.0
259	168.00	.35000	945.00	.2020-01	.1640-01	.2440-01	.9130	.7360-03	.1093-02	.1460	.9240	544.4
259	168.00	.36000	946.00	.2170-01	.1760-01	.2610-01	.9130	.7900-03	.1170-02	.1570	1.000	543.5
259	168.00	.37000	947.00	.2140-01	.1740-01	.2590-01	.9130	.7792-03	.1159-02	.1530	.9790	545.3
259	168.00	.37500	948.00	.2190-01	.1780-01	.2640-01	.9130	.7961-03	.1185-02	.1570	1.000	545.3
259	168.00	.38500	950.00	.1950-01	.1590-01	.2350-01	.9130	.7106-03	.1055-02	.1410	.9090	544.2
259	168.00	.39000	951.00	.2220-01	.1800-01	.2680-01	.9130	.8083-03	.1202-02	.1590	1.035	544.9
259	168.00	.39500	952.00	.2250-01	.1830-01	.2720-01	.9130	.8197-03	.1219-02	.1620	1.035	545.0
259	168.00	.40000	953.00	.2170-01	.1760-01	.2620-01	.9130	.7895-03	.1174-02	.1560	1.013	545.1
259	168.00	.40500	954.00	.2230-01	.1810-01	.2690-01	.9130	.8101-03	.1205-02	.1600	1.042	545.2
259	168.00	.41000	955.00	.2170-01	.1760-01	.2620-01	.9130	.7888-03	.1173-02	.1550	1.015	545.1
259	168.00	.41500	956.00	.2200-01	.1780-01	.2650-01	.9130	.7996-03	.1189-02	.1580	1.032	545.1
259	168.00	.42000	957.00	.2220-01	.1800-01	.2680-01	.9130	.8079-03	.1202-02	.1590	1.044	545.4
259	168.00	.42500	958.00	.2270-01	.1840-01	.2740-01	.9130	.8256-03	.1229-02	.1620	1.066	545.6
259	168.00	.43000	959.00	.2390-01	.1940-01	.2890-01	.9130	.8687-03	.1293-02	.1710	1.119	545.4
259	168.00	.44000	960.00	.2160-01	.1750-01	.2610-01	.9130	.7851-03	.1169-02	.1540	1.013	545.7
259	168.00	.44500	961.00	.2140-01	.1740-01	.2590-01	.9130	.7787-03	.1161-02	.1530	1.003	546.0
259	168.00	.45500	963.00	.2040-01	.1650-01	.2460-01	.9130	.7403-03	.1103-02	.1450	.9610	545.7
259	168.00	.46000	964.00	.2040-01	.1650-01	.2470-01	.9130	.7408-03	.1105-02	.1450	.9640	546.3
259	168.00	.47000	965.00	.2090-01	.1700-01	.2530-01	.9130	.7602-03	.1132-02	.1490	.9950	545.7
259	168.00	.48000	966.00	.2020-01	.1630-01	.2440-01	.9130	.7326-03	.1094-02	.1430	.9620	546.9
259	168.00	.49000	967.00	.1690-01	.1370-01	.2040-01	.9130	.6142-03	.9151-03	.1210	.8110	545.8
259	168.00	.85000	968.00	.9100-02	.7300-02	.1110-01	.9130	.3294-03	.4963-03	.6300-01	.4090	550.2
259	168.00	.86000	969.00	.1010-01	.8100-02	.1230-01	.9130	.3643-03	.5503-03	.7000-01	.4520	551.2
259	168.00	.87000	970.00	.1260-01	.1010-01	.1530-01	.9130	.4544-03	.6877-03	.8700-01	.5630	551.8
259	168.00	.88000	971.00	.1960-01	.1580-01	.2400-01	.9130	.7062-03	.1074-02	.1330	.8690	553.6
259	168.00	.89000	972.00	.2370-01	.1900-01	.2900-01	.9130	.8523-03	.1301-02	.1600	1.055	555.0
259	168.00	.90000	973.00	.2490-01	.2000-01	.3040-01	.9130	.8947-03	.1362-02	.1680	1.141	554.0

DATE 03 JUN 76

AEDC V41A-A4A (1H-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F17)

1H41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
259	168.00	.91000	974.00	.1730-01	.1390-01	.2120-01	.9130	.6222-03	.9495-03	.1170	.8470	554.9
259	168.00	.92600	975.00	.2640-01	.2110-01	.3240-01	.9130	.9465-03	.1450-02	.1760	1.269	556.3
259	168.00	.95000	976.00	.2560-01	.2050-01	.3140-01	.9130	.9182-03	.1409-02	.1700	1.220	556.8
259	180.00	.20000-01	982.00	.6380-01	.5170-01	.6320-01	.9521	.2315-02	.2833-02	.4500	3.128	547.7
259	180.00	.25000-01	983.00	.1575	.1257	.1574	.9501	.5632-02	.7054-02	1.035	7.106	558.5
259	180.00	.30000-01	984.00	.2803	.2162	.2828	.9485	.9690-02	.1268-01	1.574	10.63	579.8
57	180.00	.40000-01	600.00	.3384	.2648	.3442	.9470	.1185-01	.1540-01	2.021	12.94	571.3
57	180.00	.50000-01	601.00	.3584	.2808	.3715	.9436	.1256-01	.1662-01	2.153	13.72	570.5
57	180.00	.60000-01	602.00	.3075	.2384	.3257	.9404	.1067-01	.1457-01	1.761	11.55	576.8
57	180.00	.70000-01	603.00	.2781	.2171	.2996	.9373	.9712-02	.1340-01	1.640	11.05	573.0
57	180.00	.80000-01	604.00	.2562	.2002	.2807	.9344	.8959-02	.1256-01	1.521	9.772	572.1
57	180.00	.10000+00	605.00	.1579	.1257	.1769	.9291	.5624-02	.7914-02	1.023	7.293	560.0
57	180.00	.15000	606.00	.7690-01	.6200-01	.9040-01	.9187	.2775-02	.4047-02	.5320	3.864	550.0
57	180.00	.20000	607.00	.3390-01	.2770-01	.4060-01	.9133	.1239-02	.1816-02	.2510	1.644	539.3
57	180.00	.21000	608.00	.2390-01	.1960-01	.2860-01	.9130	.8755-03	.1281-02	.1790	1.240	537.9
57	180.00	.22000	609.00	.2000-01	.1640-01	.2400-01	.9130	.7332-03	.1072-02	.1500	1.119	537.6
57	180.00	.30000	610.00	.2600-01	.2130-01	.3100-01	.9130	.9523-03	.1387-02	.1960	1.349	536.0
57	180.00	.35000	611.00	.1530-01	.1250-01	.1820-01	.9130	.5607-03	.8156-03	.1160	.7760	535.4
57	180.00	.36000	612.00	.1430-01	.1170-01	.1710-01	.9130	.5253-03	.7639-03	.1090	.7340	535.2
57	180.00	.37000	613.00	.1800-01	.1480-01	.2150-01	.9130	.6604-03	.9605-03	.1360	.9220	535.3
57	180.00	.37500	614.00	.1620-01	.1330-01	.1940-01	.9130	.5949-03	.8665-03	.1230	.8280	535.9
57	180.00	.38000	615.00	.1590-01	.1300-01	.1900-01	.9130	.5823-03	.8489-03	.1200	.8090	536.3
57	180.00	.38500	616.00	.1820-01	.1500-01	.2180-01	.9130	.6692-03	.9747-03	.1380	.9310	535.9
57	180.00	.39000	617.00	.1870-01	.1530-01	.2230-01	.9130	.6857-03	.9985-03	.1410	.9520	535.8
57	180.00	.39500	618.00	.2040-01	.1670-01	.2430-01	.9130	.7486-03	.1089-02	.1550	1.049	535.3
57	180.00	.40000	619.00	.2010-01	.1650-01	.2390-01	.9130	.7362-03	.1071-02	.1520	1.024	535.5
57	180.00	.40500	620.00	.1960-01	.1610-01	.2340-01	.9130	.7183-03	.1046-02	.1480	.9990	536.0
57	180.00	.41000	621.00	.2070-01	.1700-01	.2470-01	.9130	.7595-03	.1106-02	.1570	1.058	535.7
57	180.00	.41500	622.00	.2230-01	.1830-01	.2660-01	.9130	.8192-03	.1192-02	.1690	1.139	535.6
57	180.00	.42500	624.00	.2320-01	.1900-01	.2780-01	.9130	.8516-03	.1242-02	.1750	1.179	536.4
57	180.00	.43000	625.00	.2040-01	.1670-01	.2430-01	.9130	.7465-03	.1089-02	.1530	1.035	536.6
57	180.00	.44000	626.00	.2310-01	.1890-01	.2760-01	.9130	.8471-03	.1234-02	.1740	1.178	536.0
57	180.00	.44500	627.00	.2040-01	.1670-01	.2430-01	.9130	.7465-03	.1088-02	.1540	1.047	535.1
57	180.00	.45000	628.00	.2010-01	.1650-01	.2400-01	.9130	.7362-03	.1073-02	.1510	1.032	536.3
57	180.00	.45500	629.00	.1800-01	.1480-01	.2160-01	.9130	.6615-03	.9645-03	.1360	.9410	536.4
57	180.00	.46000	630.00	.1870-01	.1530-01	.2230-01	.9130	.6844-03	.9973-03	.1410	.9510	536.2
57	180.00	.47000	631.00	.1780-01	.1460-01	.2130-01	.9130	.6523-03	.9523-03	.1340	.9030	537.0
57	180.00	.49000	633.00	.1740-01	.1420-01	.2080-01	.9130	.6373-03	.9305-03	.1310	.8960	537.0
57	180.00	.50000	634.00	.1520-01	.1250-01	.1820-01	.9130	.5586-03	.8151-03	.1150	.8060	536.8
57	180.00	.55000	635.00	.1360-01	.1110-01	.1620-01	.9130	.4975-03	.7265-03	.1020	.6820	536.5
57	180.00	.60000	636.00	.1450-01	.1190-01	.1730-01	.9130	.5309-03	.7720-03	.1100	.7110	535.2
57	180.00	.65000	637.00	.1260-01	.1030-01	.1500-01	.9130	.4628-03	.6720-03	.9600-01	.6240	534.6
57	180.00	.70000	638.00	.1080-01	.8800-02	.1280-01	.9130	.3952-03	.5747-03	.8200-01	.5620	535.2

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F17)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=f s	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
57	180.00	.75000	639.00	.9600-02	.7900-02	.1150-01	.9130	.3549-03	.5142-03	.7400-01	.4800	533.5
57	180.00	.80000	640.00	.1470-01	.1210-01	.1750-01	.9130	.5410-03	.7820-03	.1130	.7150	532.5
57	180.00	.85000	641.00	.2790-01	.2300-01	.3320-01	.9130	.1028-02	.1487-02	.2150	1.369	532.7
57	180.00	.86000	642.00	.2970-01	.2440-01	.3540-01	.9130	.1093-02	.1584-02	.2280	1.470	533.5
57	180.00	.87000	643.00	.3610-01	.2970-01	.4310-01	.9130	.1327-02	.1927-02	.2750	1.786	534.5
57	180.00	.88000	644.00	.3630-01	.2980-01	.4330-01	.9130	.1331-02	.1936-02	.2750	1.800	535.2
57	180.00	.89000	645.00	.2910-01	.2390-01	.3470-01	.9130	.1068-02	.1551-02	.2220	1.468	534.4
57	180.00	.90000	646.00	.2240-01	.1840-01	.2670-01	.9130	.8250-03	.1193-02	.1730	1.169	532.5
57	180.00	.95000	649.00	.2190-01	.1790-01	.2620-01	.9130	.8011-03	.1172-02	.1630	1.185	538.0
57	191.25	.36000	651.00	.1230-01	.1010-01	.1460-01	.9130	.4500-03	.6541-03	.9300-01	.6310	535.0
57	191.25	.37000	652.00	.1180-01	.9600-02	.1400-01	.9130	.4316-03	.6275-03	.8900-01	.6030	535.1
57	191.25	.37500	653.00	.1290-01	.1060-01	.1540-01	.9130	.4743-03	.6899-03	.9800-01	.6640	535.4
57	191.25	.38000	654.00	.1390-01	.1140-01	.1660-01	.9130	.5108-03	.7429-03	.1060	.7160	535.3
57	191.25	.38500	655.00	.1370-01	.1120-01	.1630-01	.9130	.5026-03	.7310-03	.1040	.7040	535.4
57	191.25	.39000	656.00	.1440-01	.1180-01	.1720-01	.9130	.5299-03	.7710-03	.1090	.7410	535.5
57	191.25	.39500	657.00	.2020-01	.1660-01	.2410-01	.9130	.7432-03	.1079-02	.1540	1.045	534.7
57	191.25	.40000	658.00	.1770-01	.1450-01	.2110-01	.9130	.6488-03	.9436-03	.1340	.9120	535.3
57	191.25	.40500	659.00	.1550-01	.1270-01	.1850-01	.9130	.5690-03	.8273-03	.1160	.8060	535.2
57	191.25	.41000	660.00	.1580-01	.1290-01	.1880-01	.9130	.5789-03	.8425-03	.1190	.8090	535.6
57	191.25	.41500	661.00	.1750-01	.1440-01	.2090-01	.9130	.6427-03	.9360-03	.1320	.8940	535.9
57	191.25	.42000	662.00	.1820-01	.1490-01	.2180-01	.9130	.6677-03	.9735-03	.1370	.9300	536.4
57	191.25	.42500	663.00	.1790-01	.1470-01	.2130-01	.9130	.6557-03	.9552-03	.1350	.9180	536.0
57	191.25	.43000	664.00	.1790-01	.1470-01	.2140-01	.9130	.6572-03	.9580-03	.1350	.9270	536.4
57	191.25	.44000	665.00	.1810-01	.1480-01	.2160-01	.9130	.6629-03	.9672-03	.1360	.9270	536.7
57	191.25	.45000	666.00	.1990-01	.1630-01	.2370-01	.9130	.7281-03	.1061-02	.1500	1.020	536.4
57	191.25	.45500	667.00	.1780-01	.1460-01	.2130-01	.9130	.6519-03	.9509-03	.1340	.9120	536.6
57	191.25	.46000	668.00	.1760-01	.1440-01	.2100-01	.9130	.6435-03	.9389-03	.1320	.9030	536.7
57	191.25	.47000	669.00	.1950-01	.1600-01	.2330-01	.9130	.7139-03	.1041-02	.1470	1.007	536.3
57	191.25	.48000	670.00	.2830-01	.2320-01	.3380-01	.9130	.1039-02	.1515-02	.2130	1.464	536.4
57	191.25	.49000	671.00	.1810-01	.1480-01	.2160-01	.9130	.6617-03	.9677-03	.1350	.9230	537.8
57	191.25	.50000	672.00	.1720-01	.1410-01	.2060-01	.9130	.6307-03	.9212-03	.1290	.9020	537.2
57	191.25	.60000	673.00	.1480-01	.1210-01	.1760-01	.9130	.5424-03	.7891-03	.1120	.7220	535.5
57	191.25	.70000	674.00	.1480-01	.1210-01	.1770-01	.9130	.5425-03	.7902-03	.1120	.7640	536.0
57	191.25	.85000	676.00	.2520-01	.2070-01	.3000-01	.9130	.9280-03	.1341-02	.1950	1.239	532.1
57	191.25	.86000	677.00	.2900-01	.2390-01	.3450-01	.9130	.1068-02	.1546-02	.2230	1.435	533.1
57	191.25	.87000	678.00	.2930-01	.2410-01	.3490-01	.9130	.1078-02	.1563-02	.2250	1.458	533.7
57	191.25	.88000	679.00	.2890-01	.2380-01	.3450-01	.9130	.1063-02	.1542-02	.2210	1.450	534.2
57	191.25	.89000	680.00	.2900-01	.2380-01	.3450-01	.9130	.1064-02	.1545-02	.2210	1.469	534.6
57	191.25	.90000	681.00	.2410-01	.1980-01	.2880-01	.9130	.8875-03	.1287-02	.1850	1.252	534.0
57	191.25	.91000	682.00	.1410-01	.1160-01	.1680-01	.9130	.5208-03	.7524-03	.1090	.8030	532.1
57	191.25	.92600	683.00	.1660-01	.1370-01	.1980-01	.9130	.6111-03	.8881-03	.1260	.9310	535.0
57	191.25	.95000	684.00	.2460-01	.2010-01	.2950-01	.9130	.9012-03	.1318-02	.1840	1.335	537.8
57	197.00	.33000	685.00	.7200-02	.5900-02	.8500-02	.9130	.2628-03	.3814-03	.5500-01	.3690	534.3

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F17)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TH DEG. R
57	197.00	.34000	686.00	.9300-02	.7600-02	.1110-01	.9130	.3409-03	.4949-03	.7100-01	.4780	534.4
57	197.00	.35000	687.00	.6700-02	.5500-02	.8000-02	.9130	.2459-03	.3571-03	.5100-01	.3450	534.6
57	197.00	.36000	688.00	.8800-02	.7200-02	.1050-01	.9130	.3233-03	.4691-03	.6700-01	.4540	534.3
57	197.00	.37000	689.00	.9200-02	.7500-02	.1090-01	.9130	.3367-03	.4890-03	.7000-01	.4720	534.6
57	197.00	.50000	691.00	.1650-01	.1350-01	.1980-01	.9130	.6056-03	.8841-03	.1240	.8380	537.0
57	197.00	.60000	692.00	.1700-01	.1390-01	.2030-01	.9130	.6236-03	.9070-03	.1290	.8350	535.4
57	197.00	.70000	693.00	.1730-01	.1420-01	.2070-01	.9130	.6354-03	.9249-03	.1310	.8940	535.7
57	197.00	.80000	694.00	.1460-01	.1200-01	.1740-01	.9130	.5384-03	.7789-03	.1130	.7130	532.8
57	197.00	.87000	695.00	.3010-01	.2470-01	.3590-01	.9130	.1106-02	.1605-02	.2300	1.476	534.0
57	197.00	.92600	696.00	.1990-01	.1630-01	.2370-01	.9130	.7304-03	.1062-02	.1510	1.111	535.2
259	209.80	.15000-01	697.00	.2561	.1852	.3071	.9283	.1024-01	.1698-01	.0000	.0000	539.9
58	209.80	.30000-01	698.00	.1700	.1365	.1742	.9450	.6113-02	.7802-02	1.156	7.832	554.4
58	209.80	.50000-01	699.00	.3391	.2672	.3580	.9402	.1196-01	.1603-01	2.096	13.18	568.2
58	209.80	.70000-01	700.00	.3308	.2504	.3686	.9341	.1121-01	.1650-01	1.714	11.34	590.6
58	209.80	.10000+00	701.00	.1379	.1104	.1564	.9262	.4941-02	.7003-02	.9210	5.839	557.1
58	209.80	.15000	702.00	.5370-01	.4350-01	.6370-01	.9168	.1947-02	.2851-02	.3800	2.713	548.5
58	209.80	.20000	703.00	.2060-01	.1680-01	.2470-01	.9130	.7533-03	.1106-02	.1530	1.020	540.7
58	209.80	.30000	704.00	.5200-02	.4300-02	.6200-02	.9130	.1909-03	.2792-03	.3900-01	.2780	539.0
58	209.80	.35000	705.00	.4400-02	.3600-02	.5200-02	.9130	.1610-03	.2350-03	.3300-01	.2270	538.0
58	209.80	.37500	706.00	.3800-02	.3100-02	.4500-02	.9130	.1376-03	.2006-03	.2800-01	.1960	537.4
58	209.80	.50000	707.00	.1470-01	.1200-01	.1770-01	.9130	.5387-03	.7917-03	.1090	.7490	541.0
58	209.80	.60000	708.00	.1310-01	.1070-01	.1570-01	.9130	.4787-03	.7032-03	.9700-01	.6200	540.9
58	209.80	.70000	709.00	.2110-01	.1720-01	.2540-01	.9130	.7717-03	.1137-02	.1550	.9920	542.2
58	209.80	.80000	710.00	.1740-01	.1420-01	.2090-01	.9130	.6359-03	.9358-03	.1280	.8020	541.6
58	209.80	.87000	711.00	.1940-01	.1580-01	.2340-01	.9130	.7084-03	.1047-02	.1420	.8980	543.3
58	209.80	.92600	712.00	.1780-01	.1450-01	.2140-01	.9130	.6494-03	.9594-03	.1300	.9470	543.3
58	217.70	.30000-01	714.00	.1534	.1235	.1576	.9445	.5528-02	.7055-02	1.053	7.141	553.0
58	217.70	.50000-01	715.00	.3107	.2456	.3285	.9398	.1100-01	.1471-01	1.951	12.61	566.6
58	217.70	.70000-01	716.00	.3237	.2437	.3626	.9337	.1091-01	.1623-01	1.642	10.95	593.0
58	217.70	.10000+00	717.00	.1215	.9750-01	.1379	.9259	.4364-02	.6175-02	.8200	5.295	555.6
58	217.70	.15000	718.00	.5330-01	.4310-01	.6320-01	.9166	.1931-02	.2930-02	.3770	2.757	548.2
58	217.70	.20000	719.00	.2190-01	.1790-01	.2630-01	.9130	.6033-03	.1177-02	.1630	1.106	539.9
58	217.70	.30000	720.00	.5100-02	.4200-02	.6100-02	.9130	.1866-03	.2732-03	.3800-01	.2740	539.3
58	217.70	.35000	721.00	.4100-02	.3400-02	.4900-02	.9130	.1514-03	.2209-03	.3100-01	.2170	537.9
58	217.70	.37500	722.00	.3500-02	.2900-02	.4200-02	.9130	.1295-03	.1890-03	.2700-01	.1850	537.9
58	217.70	.50000	723.00	.7400-02	.6100-02	.8900-02	.9130	.2714-03	.3976-03	.5500-01	.3840	539.6
58	217.70	.60000	724.00	.2160-01	.1770-01	.2590-01	.9130	.7917-03	.1162-02	.1610	1.031	540.3
58	217.70	.70000	725.00	.1710-01	.1390-01	.2060-01	.9130	.6244-03	.9208-03	.1250	.7990	542.5
58	217.70	.80000	726.00	.1620-01	.1320-01	.1940-01	.9130	.5908-03	.8708-03	.1190	.7490	542.3
58	217.70	.87000	727.00	.1800-01	.1460-01	.2170-01	.9130	.6557-03	.9696-03	.1310	.8390	543.6
58	217.70	.92600	728.00	.1010-01	.8300-02	.1220-01	.9130	.3699-03	.5469-03	.7400-01	.5380	543.5

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F18)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = 10.00 BETA = .0000 GRIT = 3.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
310	2.500	4.813	10.00	.0000	.0000	31.80	1.864	661.0	293.8	8.154	2100.	.5322-03
311	2.500	4.829	10.00	.0000	.0000	31.90	1.869	661.0	293.7	8.176	2099.	.5339-03
312	2.500	4.836	10.01	.0000	.0000	32.00	1.874	661.0	294.0	8.197	2100.	.5348-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
310	.2322-06	.6240-01	.6992-02
311	.2321-06	.6247-01	.6981-02
312	.2323-06	.6257-01	.6976-02

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
311	.00000	.30000-02	730.00	.6272	.3330	.3792	.9870	.2060-01	.2369-01	1.465	9.844	590.3
311	.00000	.10300-01	731.00	.5169	.2962	.5592	.9449	.1851-01	.3494-01	1.432	9.684	583.4
311	.00000	.15000-01	732.00	.6066	.3277	.6641	.9449	.2047-01	.4149-01	1.471	9.800	588.9
311	.00000	.20000-01	733.00	.9470	.4119	.4829	.9870	.2574-01	.3017-01	1.505	10.05	602.3
311	.00000	.25000-01	734.00	2.271	.5947	.7360	.9870	.3716-01	.4598-01	1.663	10.93	616.0
311	.00000	.30000-01	735.00	1.336	.5386	.6375	.9870	.3365-01	.3983-01	1.862	12.38	605.4
311	.00000	.40000-01	737.00	.7714	.4179	.4744	.9870	.2611-01	.2964-01	1.882	12.02	588.7
311	.00000	.45000-01	738.00	.8311	.4378	.4992	.9870	.2735-01	.3119-01	1.910	12.37	500.9
311	.00000	.60000-01	739.00	.8069	.3643	.4357	.9851	.2276-01	.2722 01	1.371	8.970	600.5
311	.00000	.70000-01	740.00	.7716	.3560	.4450	.9814	.2224-01	.2780-01	1.364	8.968	599.4
311	.00000	.80000-01	741.00	.6946	.3244	.4238	.9780	.2026-01	.2648-01	1.256	8.898	598.8
311	.00000	.10000+00	742.00	.5156	.2770	.3761	.9715	.1731-01	.2359-01	1.236	8.084	599.4
311	.00000	.1[illegible]00	743.00	.4075	.2033	.3162	.9644	.1270-01	.1976-01	.8380	5.945	594.8
311	.00000	.15000	744.00	.3784	.2021	.3307	.9583	.1262-01	.2066-01	.8950	6.091	589.9
311	.00000	.17500	745.00	.2916	.1636	.2778	.9532	.1022-01	.1735-01	.7700	5.673	585.5
311	.00000	.20000	746.00	.2331	.1400	.2357	.9492	.8747-02	.1473-01	.7240	5.095	578.1
311	.00000	.21500	747.00	.2211	.1338	.2293	.9473	.8362-02	.1432-01	.7000	4.778	577.1
311	.00000	.23000	748.00	.1941	.1168	.2057	.9457	.7296-02	.1285-01	.6050	4.403	577.9

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F18)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
311	.00000	.24000	749.00	.1691	.1029	.1810	.9449	.6431-02	.1130-01	.5430	4.034	576.4
311	.00000	.25000	750.00	.1047	.6600-01	.1114	.9449	.4123-02	.6957-02	.3680	2.944	571.4
311	.00000	.30000	751.00	.1700	.1058	.1811	.9449	.6609-02	.1132-01	.5780	3.744	573.3
311	.00000	.40000	753.00	.1754	.1105	.1865	.9449	.6906-02	.1165-01	.6170	3.919	571.4
311	.00000	.50000	754.00	.1657	.1008	.1773	.9449	.6294-02	.1108-0.	.5310	3.421	576.5
311	.00000	.60000	755.00	.1671	.1026	.1785	.9449	.6411-02	.1115-01	.5490	3.471	575.1
311	.00000	.70000	756.00	.1555	.9080-01	.1681	.9449	.5674-02	.1051-01	.4490	2.914	581.6
311	.00000	.80000	757.00	.1542	.9090-01	.1659	.9449	.5678-02	.1036-01	.4570	2.817	580.3
311	.00000	.90000	758.00	.9340-01	.5420-01	.1008	.9449	.3387-02	.6299-02	.2670	1.695	582.0
311	55.000	.22000	759.00	.1561	.3830-01	.1668	.9446	.6143-02	.1042-01	.5480	4.030	571.5
311	55.000	.25000	760.00	.8950-01	.5770-01	.9630-01	.9435	.3606-02	.6016-02	.3360	2.603	567.7
311	55.000	.27000	761.00	.9730-01	.6160-01	.1051	.9435	.3848-02	.6568-02	.3470	2.548	570.7
311	55.000	.30000	762.00	.1275	.8290-01	.1370	.9435	.5177-02	.8560-02	.4890	2.909	565.4
311	55.000	.32000	763.00	.1243	.8130-01	.1334	.9435	.5079-02	.8334-02	.4850	2.844	565.3
311	55.000	.34000	764.00	.1360	.8930-01	.1459	.9435	.5579-02	.9114-02	.5360	3.154	564.6
311	55.000	.36000	765.00	.1396	.9200-01	.1496	.9435	.5750-02	.9346-02	.5570	3.323	563.8
311	55.000	.38000	766.00	.1293	.8550-01	.1384	.9435	.5348-02	.8647-02	.5230	3.152	563.0
311	55.000	.40000	767.00	.1329	.8790-01	.1423	.9435	.5491-02	.8889-02	.5360	3.322	563.2
311	67.500	.23000	768.00	.1367	.8740-01	.1475	.9435	.5462-02	.9214-02	.5010	3.683	569.1
311	67.500	.25000	769.00	.8010-01	.5220-01	.8640-01	.9432	.3261-02	.5396-02	.3090	2.383	565.9
311	67.500	.27000	770.00	.9860-01	.6330-01	.1066	.9432	3955-02	.6661-02	.3650	2.635	568.4
311	67.500	.29000	771.00	.8740-01	.5730-01	.9410-01	.9432	.3583-02	.5881-02	.3440	2.112	564.8
311	67.500	.30000	772.00	.1099	.7170-01	.1184	.9432	.4482-02	.7395-02	.4270	2.585	565.5
311	67.500	.31000	773.00	.1164	.7610-01	.1254	.9432	.4752-02	.7835-02	.4530	2.721	565.4
311	67.500	.32000	774.00	.1241	.8170-01	.1335	.9432	.5102-02	.8341-02	.4930	2.938	564.2
311	67.500	.32500	775.00	.1254	.8290-01	.1348	.9432	.5178-02	.8421-02	.5040	3.015	563.4
311	67.500	.33000	776.00	.1241	.8150-01	.1335	.9432	.5090-02	.8341-02	.4900	2.935	564.5
311	67.500	.33500	777.00	.1172	.7740-01	.1260	.9432	.4835-02	.7871-02	.4700	2.819	563.5
311	67.500	.34000	778.00	.1221	.8090-01	.1312	.9432	.5052-02	.8196-02	.4940	2.963	563.0
311	67.500	.34500	779.00	.1194	.7910-01	.1283	.9432	.4941-02	.8016-02	.4830	2.906	563.0
311	67.500	.35000	780.00	.1172	.7780-01	.1258	.9432	.4859-02	.7861-02	.4770	2.879	562.5
311	67.500	.36000	782.00	.1136	.7540-01	.1220	.9432	.4713-02	.7619-02	.4640	2.803	562.4
311	67.500	.36500	783.00	.1121	.7470-01	.1202	.9432	.4667-02	.7509-02	.4630	2.791	561.7
311	67.500	.37000	784.00	.1163	.7750-01	.1248	.9432	.4842-02	.7794-02	.4800	2.909	561.7
311	67.500	.37500	785.00	.1174	.7820-01	.1260	.9432	.4888-02	.7872-02	.4840	2.959	561.8
311	67.500	.38000	786.00	.1139	.7570-01	.1222	.9432	.4727-02	.7637-02	.4650	2.854	562.3
311	67.500	.39000	787.00	.1175	.7810-01	.1261	.9432	.4879-02	.7878-02	.4810	2.956	562.2
311	67.500	.40000	788.00	.1088	.7230-01	.1168	.9432	.4517-02	.7296-02	.4450	2.759	562.3
311	67.500	.50000	789.00	.1127	.7280-01	.1217	.9432	.4548-02	.7603-02	.4250	2.694	567.4
311	67.500	.60000	790.00	.1091	.7140-01	.1175	.9432	.4458-02	.7338-02	.4260	2.771	565.2
311	67.500	.70000	791.00	.9830-01	.6240-01	.1066	.9432	.3896-02	.6657-02	.3520	2.460	570.3
311	67.500	.80000	792.00	.9480-01	.6190-01	.1022	.9432	.3868-02	.6332-02	.3680	2.292	565.6
311	67.500	.90000	793.00	.6390-01	.4080-01	.6920-01	.9432	.2549-02	.4326-02	.2330	1.484	569.5

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F18)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
311	78.000	.27000	794.00	.1032	.6690-01	.1116	.9431	.4178-02	.6974-02	.3920	2.767	566.9
311	78.000	.29000	795.00	.7900-01	.5240-01	.8500-01	.9431	.3276-02	.5309-02	.3220	1.968	562.5
312	78.000	.30000	796.00	.1027	.6790-01	.1106	.9431	.4251-02	.6919-02	.4150	2.496	563.7
312	78.000	.31000	797.00	.1028	.6790-01	.1108	.9431	.4248-02	.6929-02	.4130	2.485	564.1
312	78.000	.32000	798.00	.1039	.6850-01	.1119	.9431	.4287-02	.7003-02	.4160	2.487	564.3
312	78.000	.32500	799.00	.1050	.6950-01	.1131	.9431	.4351-02	.7074-02	.4260	2.552	563.5
312	78.000	.33000	800.00	.1041	.6860-01	.1122	.9431	.4293-02	.7019-02	.4160	2.495	564.4
312	78.000	.33500	801.00	.1037	.6870-01	.1116	.9431	.4297-02	.6983-02	.4210	2.522	563.5
312	78.000	.34000	802.00	.1012	.6680-01	.1090	.9431	.4179-02	.6819-02	.4070	2.437	564.1
312	78.000	.34500	803.00	.1009	.6690-01	.1085	.9431	.4189-02	.6791-02	.4120	2.475	563.1
312	78.000	.35000	804.00	.9920-01	.6590-01	.1067	.9431	.4116-02	.6677-02	.4040	2.430	563.2
312	78.000	.35500	805.00	.9750-01	.6480-01	.1049	.9431	.4057-02	.6561 02	.4000	2.408	562.7
312	78.000	.36000	806.00	.1034	.6860-01	.1112	.9431	.4293-02	.6955-02	.4220	2.547	563.0
312	78.000	.36500	807.00	.9500-01	.6330-01	.1021	.9431	.3958-02	.6399 02	.3920	2.369	562.4
312	78.000	.37000	808.00	.9880-01	.6570-01	.1063	.9431	.4111-02	.6650-02	.4050	2.458	562.8
312	78.000	.37500	809.00	.9230-01	.6120-01	.9930-01	.9431	.3832-02	.6214-02	.3770	2.282	563.1
312	78.000	.38000	810.00	.9590-01	.6390-01	.1030	.9431	.3997-02	.6447-02	.3960	2.416	562.3
312	78.000	.39000	811.00	.1062	.7050-01	.1143	.9431	.4410-02	.7151-02	.4330	2.649	563.1
312	78.000	.40000	812.00	.6870-01	.4670-01	.7360-01	.9431	.2921-02	.4602-02	.3010	1.845	558.3
312	90.000	.20000	813.00	.1016-01	.7100-02	.1070-01	.9430	.4454-03	.6694-03	.5000-01	.3650	548.5
312	90.000	.25000	814.00	.8510-01	.5610-[illegible]	.9310-01	.9430	.3510-02	.5825-02	.3330	2.667	565.5
312	90.000	.27000	816.00	.9140-01	.6120-01	.9820-01	.9430	.3829-02	.6143-02	.3830	2.705	561.3
312	90.000	.29000	817.00	.7630-01	.5120-01	.8190-01	.9430	.3202-02	.5122-02	.3220	1.988	560.8
312	90.000	.30000	818.00	.1018	.6760-01	.1096	.9430	.4227-02	.6654-02	.4160	2.521	563.0
312	90.000	.31000	819.00	.9620-01	.6390-01	.1035	.9430	.3998-02	.6477-02	.3940	2.368	562.9
312	90.000	.32000	820.00	.9470-01	.6320-01	.1018	.9430	.3952-02	.6371-02	.3920	2.354	562.1
312	90.000	.32500	821.00	.8200-01	.5460-01	.8820-01	.9430	.3417-02	.5518-02	.3380	2.024	562.4
312	90.000	.33000	822.00	.9440-01	.6320-01	.1014	.9430	.3953-02	.6343-02	.3950	2.373	561.4
312	90.000	.34000	824.00	.9440-01	.6330-01	.1014	.9430	.3958-02	.6342-02	.3970	2.375	561.1
312	90.000	.34500	825.00	.9490-01	.6390-01	.1019	.9430	.3996-02	.6375-02	.4040	2.424	560.4
312	90.000	.35000	826.00	.9090-01	.6070-01	.9770-01	.9430	.3800-02	.6113-02	.3790	2.271	561.8
312	90.000	.36000	828.00	.9070-01	.6060-01	.9750-01	.9430	.3789-02	.6089-02	.3770	2.257	561.8
312	90.000	.36500	829.00	.9040-01	.6040-01	.9720-01	.9430	.3776-02	.6070 02	.3760	2.258	561.8
312	90.000	.37000	830.00	.9260-01	.6260-01	.9940-01	.9430	.3900-02	.6217-02	.3940	2.375	560.3
312	90.000	.37500	831.00	.9020-01	.6050-01	.9690-01	.9430	.3785-02	.6061-02	.3800	2.300	561.0
312	90.000	.38000	832.00	.9090-01	.6110-01	.9750-01	.9430	.3822-02	.6103-02	.3850	2.333	560.5
312	90.000	.39000	833.00	.9000-01	.6030-01	.9660-01	.9430	.3771-02	.6045-02	.3780	2.312	561.2
312	90.000	.40000	834.00	.8870-01	.5940-01	.9520-01	.9430	.3717-02	.5958-02	.3730	2.286	561.1
312	90.000	.50000	835.00	.8670-01	.5750-01	.9330-01	.9430	.3635-02	.5839-02	.3630	2.211	563.3
312	90.000	.60000	836.00	.7380-01	.4910-01	.7940-01	.9430	.3072-02	.4969 02	.3030	2.004	562.7
312	90.000	.70000	837.00	.6920-01	.4560-01	.7460-01	.9430	.2855-02	.4669 02	.2770	1.934	564.3
312	90.000	.80000	838.00	.6490-01	.4330-01	.6980-01	.9430	.2709-02	.4308 02	.2690	1.658	562.1
312	90.000	.90000	839.00	.4810-01	.3240-01	.5160-01	.9430	.2025-02	.3230-02	.2050	1.299	560.4

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F'8)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU. R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
312	112.50	.23000	840.00	.7780-01	.5160-01	.8380-01	.9430	.3227-02	.5242-02	.3160	2.529	563.3
312	112.50	.25000	841.00	.4680-01	.3180-01	.5010-01	.9430	.1987-02	.3137-02	.2040	1.575	558.5
312	112.50	.30000	843.00	.7530-01	.5080-01	.8080-01	.9430	.3176-02	.5054-02	.3220	1.905	559.9
312	112.50	.33000	844.00	.8170-01	.5510-01	.8760-01	.9430	.3445-02	.5482-02	.3500	2.094	559.9
312	112.50	.35000	845.00	.7470-01	.5050-01	.8010-01	.9430	.3158-02	.5012-02	.3220	1.959	559.5
312	112.50	.37000	846.00	.7580-01	.5110-01	.8130-01	.9430	.3197-02	.5086-02	.3250	1.987	559.9
312	112.50	.40000	847.00	.7090-01	.4820-01	.7600-01	.9430	.3013-02	.4752-02	.3100	1.922	558.4
312	112.50	.45000	848.00	.6180-01	.4200-01	.6620-01	.9430	.2626-02	.4141-02	.2710	1.691	558.3
312	112.50	.50000	849.00	.6420-01	.4340-01	.6890-01	.9430	2716-02	.4309-02	.2770	1.770	559.4
312	112.50	.55000	850.00	.4730-01	.3240-01	.5060-01	.9430	.2026-02	.3167-02	.2120	1.408	556.8
312	112.50	.60000	851.00	.5660-01	.3820-01	.6070-01	.9430	.2392-02	.3796-02	.2440	1.623	559.5
312	112.50	.65000	852.00	.5390-01	.3620-01	.5790-01	.9430	.2267-02	.3621-02	.2280	1.543	560.6
312	112.50	.70000	853.00	.6260-01	.4190-01	.6720-01	.9430	.2622-02	.4207-02	.2620	1.827	561.4
312	112.50	.75000	854.00	.3850-01	.2610-01	.4130-01	.9430	.1632-02	.2582-02	.1670	1.077	559.0
312	112.50	.80000	855.00	.4010-01	.2710-01	.4300-01	.9430	.1693-02	.2692-02	.1720	1.111	559.8
312	112.50	.90000	856.00	.2450-01	.1660-01	.2630-01	.9430	.1037-02	.1646-02	.1060	.6800	559.5
312	125.40	.84000	857.00	.4300-01	.2900-01	.4620-01	.9430	.1817-02	.2888-02	.1850	1.133	559.8
312	125.40	.85000	858.00	.5010-01	.3370-01	.5370-01	.9430	.2108-02	.3362-02	.2130	1.315	560.3
312	125.40	.86000	859.00	.5280-01	.3550-01	.5670-01	.9430	.2219-02	.3548-02	.2230	1.389	560.8
312	125.40	.87000	860.00	.5100-01	.3430-01	.5470-01	.9430	.2144-02	.3424-02	.2160	1.349	560.6
312	125.40	.88000	861.00	.5120-01	.3430-01	.5500-01	.9430	.2144-02	.3441-02	.2140	1.337	561.4
312	125.40	.89000	862.00	.5070-01	.3400-01	.5450-01	.9430	.2128-02	.3407-02	.2140	1.341	561.0
312	125.40	.90000	863.00	.4530-01	.3050-01	.4860-01	.9430	.1910-02	.3042-02	.1940	1.222	560.1
312	125.40	.91000	864.00	.3050-01	.2090-01	.3260-01	.9430	.1307-02	.2038-02	.1370	.9930	556.3
312	125.40	.92600	865.00	.3310-01	.2210-01	.3560-01	.9430	.1383-02	.2229-02	.1370	.9680	562.1
312	129.30	.80000	866.00	.4740-01	.3190-01	.5080-01	.9430	.1939-02	.3177-02	.2030	1.269	559.7
312	129.30	.81000	867.00	.4820-01	.3260-01	.5160-01	.9430	.2038-02	.3229-02	.2080	1.294	559.2
312	129.30	.82000	868.00	.4920-01	.3330-01	.5270-01	.9430	.2086-02	.3300-02	.2140	1.328	558.9
312	129.30	.83000	869.00	.4990-01	.3370-01	.5350-01	.9430	.2107-02	.3345-02	.2150	1.337	559.5
312	135.00	.40000-01	870.00	.3485	.2072	.2941	.9636	.1297-01	.1840-01	1.058	6.689	579.8
312	135.00	.50000-01	871.00	.4402	.2534	.3804	.9607	.1585-01	.2380-01	1.236	7.755	583.5
312	135.00	.60000-01	872.00	.4262	.2277	.3740	.9580	.1425-01	.2340-01	1.012	6.576	590.4
312	135.00	.70000-01	873.00	.4342	.2299	.3949	.9556	.1438-01	.2470-01	1.011	6.726	591.1
312	135.00	.10000+00	875.00	.2648	.1598	.2654	.9498	.9997-02	.1660-01	.8340	5.387	578.0
312	135.00	.15000	876.00	.1633	.9920-0.	.1761	.9444	.6203-02	.1102-01	.5220	3.765	577.2
312	135.00	.20000	877.00	.9580-01	.6250-01	.1035	.9430	.3913-02	.6477-02	.3730	2.468	566.1
312	135.00	.35000	878.00	.7220-01	.4870-01	.7740-01	.9430	.3046-02	.4845-02	.3090	1.909	559.9
312	135.00	.40000	879.00	.6870-01	.4620-01	.7370-01	.9430	.2891-02	.4611-02	.2920	1.840	560.3
312	135.00	.50000	880.00	.6230-01	.4200-01	.6680-01	.9430	.2629-02	.4180-02	.2670	1.823	559.8
312	135.00	.55000	831.00	.5140-01	.3500-01	.5500-01	.9430	.2191-02	.3438-02	.2280	1.509	557.4
312	135.00	.60000	882.00	.5970-01	.4020-01	.6410-01	.9430	.2517-02	.4009-02	.2550	1.702	560.1
312	135.00	.65000	883.00	.4700-01	.3190-01	.5030-01	.9430	.1998-02	.3145-02	.2060	1.401	558.1
312	135.00	.70000	884.00	.4210-01	.2850-01	.4500-01	.9430	.1784-02	.2818-02	.1830	1.295	558.7

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F18)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
312	135.00	.75000	885.00	.4520-01	.3090-01	.4830-01	.9430	.1931-02	.3021-02	.2020	1.266	556.9
312	135.00	.80000	886.00	.5850-01	.4000-01	.6260-01	.9430	.2501-02	.3918-02	.2610	1.630	557.1
312	135.00	.84000	887.00	.7590-01	.5980-01	.9460-01	.9130	.2678-02	.4234-02	.0000	.0000	244.7
310	180.00	.40000-01	600.00	.2872	.1803	.2569	.9600	.1125-01	.1603-01	.9590	6.344	572.3
310	180.00	.50000-01	601.00	.2935	.1830	.2698	.9573	.1142-01	.1693-01	1.003	6.383	573.3
310	180.00	.60000-01	602.00	.2613	.1571	.2455	.9549	.9801-02	.1532-01	.8120	5.325	578.2
310	180.00	.70000-01	603.00	.2930	.1697	.2871	.9527	.1059-01	.1731-01	.8100	5.423	584.6
310	180.00	.80000-01	604.00	.2638	.1567	.2609	.9508	.9779-02	.1628-01	.7480	5.095	579.7
310	180.00	.10000+00	605.00	.1649	.1051	.1693	.9477	.6559-02	.1056-01	.5880	4.242	559.9
310	180.00	.15000	606.00	.1162	.7350-01	.1255	.9435	.4583-02	.7839-02	.4120	2.957	571.2
310	180.00	.20000	607.00	.8390-01	.5540-01	.9030-01	.9430	.3453-02	.5634-02	.3370	2.179	563.6
310	180.00	.21000	608.00	.6790-01	.4500-01	.7310-01	.9430	.2809-02	.4559-02	.2760	1.880	562.9
310	180.00	.22000	609.00	.5990-01	.3980-01	.6450-01	.9430	.2481-02	.4025-02	.2440	1.789	562.8
310	180.00	.30000	610.00	.5490-01	.3670-01	.5900-01	.9430	.2288-02	.3680-02	.2260	1.549	561.5
310	180.00	.35000	611.00	.7290-01	.4900-01	.7820-01	.9430	.3056-02	.4879-02	.3080	2.043	560.1
310	180.00	.36000	612.00	.6100-01	.4090-01	.6560-01	.9430	.2651-02	.4091-02	.2660	1.704	561.0
310	180.00	.36000	612.00	.6240-01	.4170-01	.6710-01	.9430	.2699-02	.4188-02	.2690	1.722	561.8
310	180.00	.37500	614.00	.6370-01	.4250-01	.6840-01	.9430	.2650-02	.4271-02	.2690	1.756	561.8
310	180.00	.38000	615.00	.6310-01	.4210-01	.6780-01	.9430	.2888-02	.4232-02	.2660	1.743	561.7
310	180.00	.38500	616.00	.6790-01	.4500-01	.7190-01	.9430	.2806-02	.4486-02	.2880	1.879	560.5
310	180.00	.39000	617.00	.6450-01	.4320-01	.6930-01	.9430	.2695-02	.4335-02	.2780	1.822	561.1
310	180.00	.39500	618.00	.6410-01	.4290-01	.6890-01	.9430	.2677-02	.4293-02	.2760	1.778	561.2
310	180.00	.40000	619.00	.6670-01	.4460-01	.7160-01	.9430	.2782-02	.4479-02	.2870	1.851	561.4
310	180.00	.40500	620.00	.6640-01	.4430-01	.7120-01	.9430	.2762-02	.4453-02	.2850	1.869	561.8
310	180.00	.41000	621.00	.6640-01	.4430-01	.7120-01	.9430	.2767-02	.4456-02	.2850	1.897	561.7
310	180.00	.41500	622.00	.6520-01	.4360-01	.7010-01	.9430	.2717-02	.4378-02	.2800	1.848	564.1
310	180.00	.42500	624.00	.6970-01	.4600-01	.7510-01	.9430	.2903-02	.4683-02	.2920	1.890	563.5
310	180.00	.43000	625.00	.6660-01	.4410-01	.7190-01	.9430	.2774-02	.4474-02	.2870	1.872	563.4
310	180.00	.44000	626.00	.6580-01	.4600-01	.7500-01	.9430	.2740-02	.4679-02	.2910	1.815	564.0
310	180.00	.44500	627.00	.6760-01	.4460-01	.7280-01	.9430	.2760-02	.4543-02	.2800	1.733	564.7
310	180.00	.45000	628.00	.6630-01	.4390-01	.7040-01	.9430	.2678-02	.4385-02	.2780	1.801	563.5
310	180.00	.45500	629.00	.6580-01	.4330-01	.7060-01	.9430	.2738-02	.4409-02	.2800	1.789	564.0
310	180.00	.46000	630.00	.6490-01	.4260-01	.7000-01	.9430	.2710-02	.4359-02	.2760	1.821	563.3
310	180.00	.47000	631.00	.6250-01	.4100-01	.6750-01	.9430	.2610-02	.4219-02	.2670	1.654	565.6
310	180.00	.48000	632.00	.6340-01	.4140-01	.6840-01	.9430	.2646-02	.4270-02	.2690	1.889	565.5
310	180.00	.49000	633.00	.6250-01	.4120-01	.6800-01	.9430	.2608-02	.4241-02	.2660	1.684	564.2
310	180.00	.50000	634.00	.5980-01	.3870-01	.6340-01	.9430	.2418-02	.3989-02	.2540	1.582	565.1
310	180.00	.55000	635.00	.6210-01	.3990-01	.6630-01	.9430	.2519-02	.4152-02	.2610	1.660	569.3
310	180.00	.60000	636.00	.6360-01	.4130-01	.6860-01	.9430	.2583-02	.4266-02	.2690	1.758	570.1
310	180.00	.65000	637.00	.6580-01	.4260-01	.7010-01	.9430	.2680-02	.4415-02	.2770	1.774	572.1
310	180.00	.70000	638.00	.6580-01	.4280-01	.7006-01	.9430	.2680-02	.4428-02	.2770	1.769	571.2
310	180.00	.75000	639.00	.6980-01	.4560-01	.8530-01	.9430	.2830-02	.4655-02	.2960	2.446	572.3
310	180.00	.80000	640.00	.1138	.7140-01	.1241	.9430	.4655-02	.7743-02	.3960	2.734	574.8
310	180.00	.85000	641.00	.1321	.8150-01	.1445	.9430	.5094-02	.9025-02	.4390		

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F18)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
310	180.00	.86000	642.00	.1288	.7950-01	.1410	.9430	.4960-02	.8800-02	.4280	2.708	574.7
310	180.00	.87000	643.00	.1309	.8030-01	.1435	.9430	.5009-02	.8956-02	.4280	2.723	575.6
310	180.00	.88000	644.00	.1292	.7910-01	.1418	.9430	.4935-02	.8845-02	.4210	2.697	575.8
310	180.00	.89000	645.00	.1275	.7790-01	.1400	.9430	.4860-02	.8733-02	.4130	2.678	576.1
310	180.00	.90000	646.00	.9630-01	.6030-01	.1051	.9430	.3760-02	.6559-02	.3320	2.203	572.8
310	180.00	.95000	649.00	.5830-01	.3800-01	.6310-01	.9430	.2370-02	.3936-02	.2240	1.605	566.4
310	191.25	.35000	650.00	.6470-01	.4310-01	.6960-01	.9430	.2692-02	.4343-02	.2670	1.779	562.0
310	191.25	.36000	651.00	.6750-01	.4520-01	.7250-01	.9430	.2818-02	.4522-02	.2820	1.886	561.1
310	191.25	.37000	652.00	.6620-01	.4440-01	.7100-01	.9430	.2772-02	.4432-02	.2790	1.861	560.5
310	191.25	.37500	653.00	.2210-01	.1550-01	.2350-01	.9430	.9646-03	.1467-02	.1060	.7140	551.0
310	191.25	.38000	654.00	.6590-01	.4420-01	.7070-01	.9430	.2760-02	.4411-02	.2780	1.860	560.4
310	191.25	.38500	655.00	.6460-01	.4330-01	.6940-01	.9430	.2700-02	.4328-02	.2710	1.811	560.9
310	191.25	.39000	656.00	.6180-01	.4140-01	.6650-01	.9430	.2581-02	.4147-02	.2580	1.724	561.3
310	191.25	.39500	657.00	.6490-01	.4350-01	.6980-01	.9430	.2712-02	.4354-02	.2710	1.814	561.1
310	191.25	.40000	658.00	.6500-01	.4330-01	.6980-01	.9430	.2704-02	.4357-02	.2690	1.803	561.7
310	191.25	.41000	660.00	.6580-01	.4390-01	.7080-01	.9430	.2741-02	.4417-02	.2720	1.822	561.7
310	191.25	.41500	661.00	.6770-01	.4540-01	.7270-01	.9430	.2833-02	.4537-02	.2840	1.896	560.8
310	191.25	.42000	662.00	.6830-01	.4530-01	.7350-01	.9430	.2828-02	.4589-02	.2780	1.858	562.9
310	191.25	.42500	663.00	.6500-01	.4320-01	.6990-01	.9430	.2695-02	.4364-02	.2660	1.782	562.5
310	191.25	.43000	664.00	.6630-01	.4400-01	.7140-01	.9430	.2744-02	.4453-02	.2690	1.824	562.9
310	191.25	.44000	665.00	.7020-01	.4640-01	.7560-01	.9430	.2897-02	.4715-02	.2830	1.904	563.4
310	191.25	.45000	666.00	.6470-01	.4300-01	.6970-01	.9430	.2681-02	.4346-02	.2640	1.773	562.8
310	191.25	.45500	667.00	.6340-01	.4210-01	.6830-01	.9430	.2628-02	.4259-02	.2590	1.741	562.7
310	191.25	.46000	668.00	.6500-01	.4340-01	.6990-01	.9430	.2705-02	.4360-02	.2690	1.813	561.8
310	191.25	.47000	669.00	.6140-01	.4080-01	.6610-01	.9430	.2546-02	.4122-02	.2510	1.699	562.5
	191.25	.48000	670.00	.6380-01	.4230-01	.6860-01	.9430	.2642-02	.4283-02	.2600	1.760	562.7
	191.25	.49000	671.00	.6130-01	.4060-01	.6600-01	.9430	.2534-02	.4117-02	.2480	1.676	563.1
.10	19[illegible]	.50000	672.00	.5500-01	.3670-01	.5910-01	.9430	.2290-02	.3686-02	.2280	1.571	561.6
310	191.25	.60000	673.00	.7970-01	.5150-01	.8640-01	.9430	.3212-02	.5389-02	.3000	1.901	567.8
310	191.25	.70000	674.00	.9190-01	.5740-01	.1004	.9430	.3580-02	.6263-02	.3150	2.115	573.1
310	191.25	.85000	676.00	.1177	.7350-01	.1286	.9430	.4585-02	.8022-02	.4030	2.516	573.1
310	191.25	.86000	677.00	.1240	.7690-01	.1356	.9430	.4796-02	.8463-02	.4170	2.631	574.1
310	191.25	.87000	678.00	.1247	.7750-01	.1364	.9430	.4834-02	.8508-02	.4220	2.683	573.8
310	191.25	.88000	679.00	.1258	.7740-01	.1378	.9430	.4827-02	.8600-02	.4150	2.666	575.2
310	191.25	.89000	680.00	.1233	.7580-01	.1352	.9430	.4728-02	.8434-02	.4050	2.646	575.3
310	191.25	.90000	681.00	.1109	.6860-01	.1214	.9430	.4277-02	.7572-02	.3700	2.463	574.5
310	191.25	.91000	682.00	.6840-01	.4350-01	.7440-01	.9430	.2713-02	.4641-02	.2460	1.774	570.4
310	191.25	.92600	683.00	.7600-01	.4720-01	.8310-01	.9430	.2944-02	.5185-02	.2570	1.853	573.9
310	191.25	.95000	684.00	.5920-01	.3870-01	.6390-01	.9430	.2415-02	.3987-02	.2310	1.651	565.5
310	197.00	.33000	685.00	.6730-01	.4500-01	.7230-01	.9430	.2806-02	.4514-02	.2800	1.865	561.5
310	197.00	.34000	686.00	.6620-01	.4410-01	.7120-01	.9430	.2753-02	.4440-02	.2730	1.821	561.9
310	197.00	.35000	687.00	.6760-01	.4520-01	.7260-01	.9430	.2821-02	.4532-02	.2820	1.878	561.3
310	197.00	.36000	688.00	.6540-01	.4380-01	.7030-01	.9430	.2733-02	.4387-02	.2730	1.822	561.1

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (K/TF18)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
310	197.00	.37000	689.00	.6150-01	.4150-01	.6600-01	.9430	.2587-02	.4116-02	.2620	1.752	559.7
310	197.00	.37500	690.00	.7760-01	.5210-01	.8330-01	.9430	.3250-02	.5196-02	.3270	2.189	560.5
310	197.00	.50000	691.00	.5430-01	.3620-01	.5830-01	.9430	.2260-02	.3640-02	.2250	1.498	561.7
310	197.00	.60000	692.00	.6120-01	.4050-01	.6600-01	.9430	.2526-02	.4118-02	.2460	1.574	563.6
310	197.00	.70000	693.00	.8210-01	.5260-01	.8910-01	.9430	.3284-02	.5562-02	.3020	2.027	569.1
310	197.00	.80000	694.00	.9810-01	.6320-01	.1063	.9430	.3945-02	.6632-02	.3670	2.282	568.1
310	197.00	.87000	695.00	.1137	.7160-01	.1239	.9430	.4467-02	.7728-02	.3990	2.511	571.8
310	197.00	.92600	696.00	.7180-01	.4550-01	.7810-01	.9430	.2836-02	.4875-02	.2560	1.848	571.0
310	209.80	.15000-01	697.00	.2314	.1474	.2515	.9430	.9197-02	.1569-01	.8370	5.682	570.0
311	209.80	.30000-01	698.00	.3463	.2131	.2985	.9628	.1331-01	.1865-01	1.144	7.674	574.9
311	209.80	.50000-01	699.00	.3388	.2116	.3065	.9588	.1322-01	.1915-01	1.163	7.298	572.8
311	209.80	.70000-01	700.00	.3445	.1975	.3253	.9540	.1234-01	.2032-01	.9550	6.341	583.4
311	209.80	.10000+00	701.00	.2483	.1545	.2526	.9486	.9651-02	.1578-01	.8440	5.307	573.4
311	209.80	.15000	702.00	.1601	.1003	.1727	.9439	.6269-02	.1079-01	.5550	3.918	572.3
311	209.80	.20000	703.00	.9730-01	.6480-01	.1046	.9430	.4050-02	.6535-02	.4010	2.652	561.7
311	209.80	.30000	704.00	.6190-01	.4190-01	.6640-01	.9430	.2615-02	.4149-02	.2660	1.875	558.9
311	209.80	.37500	706.00	.6240-01	.4290-01	.6670-01	.9430	.2680-02	.4167-02	.2830	1.934	555.2
311	209.80	.50000	707.00	.6100-01	.4110-01	.6550-01	.9430	.2571-02	.4090-02	.2610	1.773	559.4
311	209.80	.60000	708.00	.6410-01	.4390-01	.6850-01	.9430	.2743-02	.4281-02	.2880	1.825	555.9
311	209.30	.70000	709.00	.6530-01	.4370-01	.7020-01	.9430	.2732-02	.4386-02	.2730	1.727	560.9
311	209.80	.80000	710.00	.8340-01	.5580-01	.8970-01	.9430	.3485-02	.5601-02	.3470	2.150	561.1
311	209.80	.87000	711.00	.8820-01	.5810-01	.9510-01	.9430	.3627-02	.5940-02	.3510	2.199	564.0
311	209.80	.92600	712.00	.4690-01	.3080-01	.5050-01	.9430	.1927-02	.3157-02	.1860	1.342	564.1
311	217.70	.15000-01	713.00	.2633	.1707	.2850	.9430	.1066-01	.1780-01	1.001	6.827	566.9
311	217.70	.30000-01	714.00	.3507	.2147	.2986	.9638	.1341-01	.1865-01	1.142	7.659	575.6
311	217.70	.50000-01	715.00	.4484	.2737	.3991	.9597	.1710-01	.2494-01	1.450	9.320	576.0
311	217.70	.70000-01	716.00	.4159	.2304	.3864	.9547	.1439-01	.2414-01	1.066	7.130	586.7
311	217.70	.10000+00	717.00	.2683	.1669	.2711	.9492	.1043-01	.1693-01	.9120	5.834	573.4
311	217.70	.15000	718.00	.1529	.9730-01	.1640	.9441	.6078-02	.1024-01	.5520	3.995	569.9
311	217.70	.20000	719.00	.9680-01	.6520-01	.1039	.9430	.4076-02	.6490-02	.4130	2.764	559.5
311	217.70	.30000	720.00	.6190-01	.4170-01	.6640-01	.9430	.2607-02	.4140-02	.2650	1.881	559.3
311	217.70	.35000	721.00	.6840-01	.4690-01	.7310-01	.9430	.2932-02	.4569-02	.3080	2.128	555.6
311	217.70	.37500	722.00	.6550-01	.4490-01	.6990-01	.9430	.2807-02	.4370-02	.2960	2.039	555.5
311	217.70	.50000	723.00	.6360-01	.4310-01	.6810-01	.9430	.2695-02	.4254-02	.2770	1.903	558.0
311	217.70	.70000	725.00	.5210-01	.3540-01	.5580-01	.9430	.2210-02	.3485-02	.2280	1.438	557.8
311	217.70	.80000	726.00	.6950-01	.4710-01	.7450-01	.9430	.2941-02	.4655-02	.3010	1.881	558.4
311	217.70	.87000	727.00	.7960-01	.5330-01	.8550-01	.9430	.3330-02	.5343-02	.3330	2.113	560.8
311	217.70	.92600	728.00	.4840-01	.3230-01	.5210-01	.9430	.2018-02	.3253-02	.2000	1.445	561.6

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F18)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = 10.00 BETA = .0000 GRIT = 3.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
101	3.510	4.800	9.990	.0000	.0000	57.00	.7370	680.0	196.3	6.352	2410.	.3148-03
102	3.510	4.792	10.00	.0000	.0000	57.00	.7360	681.0	196.5	6.351	2411.	.3144-03
103	3.510	4.783	10.00	.0000	.0000	56.90	.7350	681.0	196.5	6.341	2411.	.3139-03
284	3.510	4.830	10.00	.0000	.0000	57.00	.7370	677.0	195.5	6.353	2405.	.3161-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
101	.1580-06	.5535-01	.9280-02
102	.1582-06	.5536-01	.9286-02
103	.1582-06	.5532-01	.9294-02
284	.1574-06	.5533-01	.9255-02

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
102	.00000	.30000-02	730.00	.5542	.3460	.3835	.9870	.1916-01	.2123-01	1.735	11.66	590.1
102	.00000	.10300-01	731.00	.3511	.2432	.4245	.9305	.1347-01	.2350-01	1.492	10.16	569.9
102	.00000	.15000-01	732.00	.4358	.2918	.5396	.9305	.1616-01	.2987-01	1.664	11.15	577.6
102	.00000	.20000-01	733.00	.7113	.4113	.4661	.9861	.2277-01	.2581-01	1.837	12.29	600.0
102	.00000	.25000-01	734.00	1.038	.5228	.6220	.9839	.2894-01	.3443-01	1.984	13.07	612.1
102	.00000	.30000-01	735.00	.8316	.4761	.5616	.9822	.2636-01	.3109-01	2.098	13.98	601.0
102	.00000	.40000-01	737.00	.5347	.3478	.4025	.9806	.1926-01	.2228-01	1.875	12.01	583.3
102	.00000	.45000-01	738.00	.5873	.3766	.4446	.9787	.2085-01	.2461-01	1.978	12.84	585.8
102	.00000	.60000-01	739.00	.6793	.3943	.5090	.9731	.2183-01	.2818-01	1.771	11.59	599.5
102	.00000	.70000-01	740.00	.7774	.4185	.5821	.9596	.2317-01	.3222-01	1.708	11.21	606.9
102	.00000	.80000-01	741.00	.4830	.2978	.4023	.9451	.1648-01	.2227-01	1.463	10.40	591.9
102	.00000	.10000+00	742.00	.4307	.2821	.3911	.9596	.1562-01	.2165-01	1.540	10.11	582.0
102	.00000	.12500	743.00	.3426	.2161	.3339	.9522	.1196-01	.1849-01	1.102	7.849	588.5
102	.00000	.15000	744.00	.2881	.1901	.3013	.9458	.1052-01	.1668-01	1.053	7.197	580.6
102	.00000	.17500	745.00	.2046	.1395	.2252	.9402	.7723-02	.1247-01	.8260	6.125	573.7
102	.00000	.20000	746.00	.1583	.1105	.1807	.9357	.6116-02	.1000-01	.6890	4.878	568.0

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F18)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
102	.00000	.21500	747.00	.1358	.9560-01	.1578	.9334	.5295-02	.8736-02	.6090	4.183	565.6
102	.00000	.23000	748.00	.1209	.8510-01	.1431	.9315	.4712-02	.7924-02	.5420	3.966	565.7
102	.00000	.24000	749.00	.1121	.7920-01	.1338	.9305	.4386-02	.7405-02	.5090	3.805	564.6
102	.00000	.25000	750.00	.6540-01	.4720-01	.7700-01	.9305	.2612-02	.4263-02	.3190	2.566	558.5
102	.00000	.30000	751.00	.1049	.7490-01	.1244	.9305	.4146-02	.6888-02	.4930	3.208	561.8
102	.00000	.35000	752.00	.1112	.7970-01	.1314	.9305	.4414-02	.7273-02	.5310	3.334	560.3
102	.00000	.40000	753.00	.1053	.7530-01	.1246	.9305	.4170-02	.6895-02	.4990	3.186	561.0
102	.00000	.50000	754.00	.1062	.7530-01	.1264	.9305	.4170-02	.6995-02	.4880	3.168	563.5
102	.00000	.60000	755.00	.1013	.7170-01	.1208	.9305	.3967-02	.6688-02	.4610	2.931	564.4
102	.00000	.70000	756.00	.8360-01	.5840-01	.1005	.9305	.3231-02	.5562-02	.3650	2.387	567.7
102	.00000	.80000	757.00	.6810-01	.4700-01	.8240-01	.9305	.2604-02	.4562-02	.2870	1.777	570.5
102	.00000	.90000	758.00	.4550-01	.3170-01	.5470-01	.9305	.1757-02	.3027-02	.1980	1.268	567.9
102	.00000	.95000	759.00	.9160-01	.6600-01	.1083	.9300	.3653-02	.5997-02	.4450	3.291	558.8
102	55.000	.22000	760.00	.5540-01	.4060-01	.6560-01	.9287	.2247-02	.3630-02	.2860	2.236	553.2
102	55.000	.25000	761.00	.7050-01	.5130-01	.8400-01	.9287	.2838-02	.4648-02	.3540	2.620	556.0
102	55.000	.27000	762.00	.8610-01	.6300-01	.1020	.9287	.3488-02	.5648-02	.4430	2.653	553.7
102	55.000	.30000	763.00	.8530-01	.6250-01	.1010	.9287	.3459-02	.5590-02	.4410	2.599	553.2
102	55.000	.32000	764.00	.8230-01	.6040-01	.9740-01	.9287	.3343-02	.5391-02	.4270	2.527	552.9
102	55.000	.34000	765.00	.8090-01	.5940-01	.9560-01	.9287	.3290-02	.5294-02	.4220	2.530	552.4
102	55.000	.36000	766.00	.7900-01	.5810-01	.9330-01	.9287	.3215-02	.5167-02	.4130	2.505	552.1
102	55.000	.38000	767.00	.7880-01	.5810-01	.9310-01	.9287	.3215-02	.5152-02	.4150	2.588	551.5
102	55.000	.40000	768.00	.8250-01	.6010-01	.9810-01	.9286	.3328-02	.5433-02	.4170	3.093	555.2
102	67.500	.23000	769.00	.4410-01	.3250-01	.5220-01	.9282	.1798-02	.2892-02	.2320	1.604	551.4
102	67.500	.25000	770.00	.7090-01	.5190-01	.8440-01	.9282	.2871-02	.4672-02	.3640	2.647	553.8
102	67.500	.27000	771.00	.5030-01	.3710-01	.5950-01	.9282	.2055-02	.3292-02	.2670	1.653	550.6
102	67.500	.29000	772.00	.7130-01	.5240-01	.8460-01	.9282	.2898-02	.4682-02	.3720	2.266	552.4
102	67.500	.30000	773.00	.7260-01	.5330-01	.8610-01	.9282	.2952-02	.4769-02	.3790	2.289	552.4
102	67.500	.31000	774.00	.7380-01	.5430-01	.8740-01	.9282	.3007-02	.4837-02	.3890	2.331	551.5
102	67.500	.32000	774.00	.7050-01	.5200-01	.8340-01	.9282	.2876-02	.4619-02	.3720	2.241	551.1
102	67.500	.32500	775.00	.7180-01	.5290-01	.8500-01	.9282	.2931-02	.4708-02	.3800	2.290	551.1
102	67.500	.33000	776.00	.7250-01	.5350-01	.8570-01	.9282	.2961-02	.4746-02	.3850	2.322	550.7
102	67.500	.33500	777.00	.6950-01	.5130-01	.8230-01	.9282	.2841-02	.4557-02	.3690	2.224	550.9
102	67.500	.34000	778.00	.7170-01	.5290-01	.8490-01	.9282	.2930-02	.4699-02	.3810	2.302	550.8
102	67.500	.34500	779.00	.6990-01	.5160-01	.8270-01	.9282	.2858-02	.4576-02	.3720	2.257	550.5
102	67.500	.35000	780.00	.6730-01	.4970-01	.7960-01	.9282	.2753-02	.4409-02	.3580	2.180	550.5
102	67.500	.35500	781.00	.6570-01	.4850-01	.7780-01	.9282	.2685-02	.4305-02	.3490	2.122	550.8
102	67.500	.36000	782.00	.6870-01	.5080-01	.8120-01	.9282	.2814-02	.4495-02	.3680	2.231	550.0
102	67.500	.36500	783.00	.6990-01	.5170-01	.8250-01	.9282	.2861-02	.4569-02	.3740	2.283	549.9
102	67.500	.37000	784.00	.6700-01	.4960-01	.7920-01	.9282	.2744-02	.4387-02	.3580	2.204	550.1
102	67.500	.37500	785.00	.6800-01	.5020-01	.8030-01	.9282	.2782-02	.4447-02	.3630	2.240	550.1
102	67.500	.38000	736.00	.6700-01	.4940-01	.7920-01	.9282	.2737-02	.4384-02	.3560	2.202	550.6
102	67.500	.39000	787.00	.6970-01	.5140-01	.8260-01	.9282	.2844-02	.4570-02	.3680	2.295	551.2
102	67.500	.40000	788.00	.6430-01	.4720-01	.7640-01	.9282	.2611-02	.4232-02	.3330	2.129	553.1
103	67.500	.50000	789.00									

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F18)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
103	67.500	.60000	790.00	.6460-01	.4740-01	.7670-01	.9282	.2622-02	.4248-02	.3350	2.190	553.0
103	67.500	.70000	791.00	.5620-01	.4110-01	.6700-01	.9282	.2278-02	.3707-02	.2890	2.032	553.9
103	67.500	.80000	792.00	.5890-01	.4320-01	.6990-01	.9282	.2392-02	.3869-02	.3060	1.919	552.6
103	67.500	.90000	793.00	.3040-01	.2240-01	.3610-01	.9282	.1239-02	.2000-02	.1590	1.023	552.2
103	78.000	.27000	794.00	.6050-01	.4450-01	.7210-01	.9279	.2462-02	.3989-02	.3160	2.245	552.4
103	78.000	.29000	795.00	.5890-01	.4390-01	.6940-01	.9279	.2431-02	.3844-02	.3240	1.999	547.2
103	78.000	.30000	796.00	.6380-01	.4730-01	.7540-01	.9279	.2617-02	.4170-02	.3450	2.088	549.0
103	78.000	.31000	797.00	.6290-01	.4670-01	.7430-01	.9279	.2584-02	.4108-02	.3420	2.070	548.5
103	78.000	.32000	798.00	.6200-01	.4610-01	.7320-01	.9279	.2550-02	.4048-02	.3380	2.038	548.1
103	78.000	.32500	799.00	.6110-01	.4540-01	.7200-01	.9279	.2512-02	.3984-02	.3340	2.016	548.0
103	78.000	.33000	800.00	.6420-01	.4780-01	.7570-01	.9279	.2642-02	.4186-02	.3520	2.125	547.7
103	78.000	.33500	801.00	.6110-01	.4540-01	.7200-01	.9279	.2511-02	.3985 02	.3330	2.013	548.1
103	78.000	.34000	802.00	.6400-01	.4770-01	.7550-01	.9279	.2639-02	.4175-02	.3520	2.128	547.3
103	78.000	.34500	803.00	.6440-01	.4800-01	.7590-01	.9279	.2656-02	.4200-02	.3550	2.149	547.3
103	78.000	.35000	804.00	.6170-01	.4600-01	.7270-01	.9279	.2544-02	.4021-02	.3400	2.060	547.1
103	78.000	.35500	805.00	.6350-01	.4740-01	.7470-01	.9279	.2619-02	.4134-02	.3510	2.127	546.8
103	78.000	.36000	806.00	.5940-01	.4420-01	.6990-01	.9279	.2447-02	.3869-02	.3270	1.986	547.2
103	78.000	.36500	807.00	.5800-01	.4330-01	.6840-01	.9279	.2393-02	.3782-02	.3200	1.947	547.2
103	78.000	.37000	808.00	.5850-01	.4360-01	.6890-01	.9279	.2410-02	.3813-02	.3220	1.965	547.3
103	78.000	.37500	809.00	.5840-01	.4350-01	.6890-01	.9279	.2408-02	.3809-02	.3210	1.964	547.3
103	78.000	.38000	810.00	.6010-01	.4480-01	.7080-01	.9279	.2480-02	.3916-02	.3320	2.041	546.9
.03	78.000	.39000	811.00	.6010-01	.4470-01	.7070-01	.9279	.2475-02	.3914-02	.3300	2.036	547.2
103	78.000	.40000	812.00	.6190-01	.4620-01	.7290-01	.9279	.2555-02	.4032-02	.3420	2.110	546.8
284	90.000	.40000-01	985.00	.3852	.2565	.3437	.9620	.1419-01	.1902-01	1.438	9.220	575.9
284	90.000	.50000-01	986.00	.4048	.2692	.3725	.9586	.1490-01	.2061-01	1.506	9.597	576.2
284	90.000	.60000-01	987.00	.3945	.2508	.3717	.9554	.1388-01	.2057-01	1.290	8.331	584.3
284	90.000	.80000-01	989.00	.3473	.2259	.3496	.9494	.1250-01	.1934-01	1.211	8.434	580.4
284	90.000	.15000	991.00	.1548	.1074	.1796	.9344	.5942-02	.9936-02	.6570	4.775	566.7
103	90.000	.20000	813.00	.6170-01	.4560-01	.7300-01	.9279	.2525-02	.4038-02	.3310	2.401	549.8
103	90.000	.24000	814.00	.5270-01	.3910-01	.6240-01	.9278	.2161-02	.3451-02	.2840	2.295	549.3
103	90.000	.27000	816.00	.5320-01	.3960-01	.6280-01	.9278	.2192-02	.3476-02	.2920	2.072	547.7
103	90.000	.29000	817.00	.4730-01	.3530-01	.5570-01	.9278	.1952-02	.3081-02	.2620	1.626	546.7
103	90.000	.30000	818.00	.5450-01	.4050-01	.6440-01	.9278	.2240-02	.3563-02	.2970	1.812	548.3
103	90.000	.31000	819.00	.5670-01	.4210-01	.6690-01	.9278	.2331-02	.3701-02	.3090	1.875	548.0
103	90.000	.32000	820.00	.5710-01	.4250-01	.6740-01	.9278	.2350-02	.3726-02	.3130	1.889	547.7
103	90.000	.32500	821.00	.5690-01	.4240-01	.6700-01	.9278	.2346-02	.3703-02	.3140	1.891	547.0
103	90.000	.33000	822.00	.5450-01	.4070-01	.6430-01	.9278	.2252-02	.3554-02	.3020	1.826	546.7
103	90.000	.33500	823.00	.5370-01	.4010-01	.6330-01	.9278	.2220-02	.3500-02	.2980	1.810	546.3
103	90.000	.34000	824.00	.5320-01	.3980-01	.6270-01	.9278	.2200-02	.3468-02	.2960	1.783	546.3
103	90.000	.34500	825.00	.5250-01	.3920-01	.6180-01	.9278	.2170-02	.3417-02	.2920	1.768	546.1
103	90.000	.35000	826.00	.5330-01	.3980-01	.6270-01	.9278	.2202-02	.3467-02	.2970	1.793	546.1
103	90.000	.36000	828.00	.5350-01	.3990-01	.6290-01	.9278	.2210-02	.3482 02	.2970	1.793	546.2
103	90.000	.37000	830.00	.5080-01	.3800-01	.5970-01	.9278	.2102-02	.3300-02	.2850	1.727	545.4

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F18)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
103	90.000	.37500	831.00	.5060-01	.3790-01	.5940-01	.9278	.2095-02	.3288-02	.2840	1.732	545.3
103	90.000	.38000	832.00	.5130-01	.3840-01	.6030-01	.9278	.2125-02	.3337-02	.2870	1.753	545.5
103	90.000	.39000	833.00	.4920-01	.3680-01	.5790-01	.9278	.2034-02	.3203-02	.2740	1.689	546.1
103	90.000	.40000	834.00	.5210-01	.3900-01	.6130-01	.9278	.2156-02	.3389-02	.2910	1.800	545.7
103	90.000	.50000	835.00	.4830-01	.3590-01	.5710-01	.9278	.1984-02	.3160-02	.2620	1.654	548.7
103	90.000	.60000	836.00	.2860-01	.2130-01	.3380-01	.9278	.1179-02	.1870-02	.1570	1.045	547.7
103	90.000	.70000	837.00	.4.80-01	.3110-01	.4920-01	.9278	.1720-02	.2724-02	.2290	1.614	547.4
103	90.000	.80000	838.00	.3810-01	.2860-01	.4480-01	.9278	.1581-02	.2478-02	.2150	1.336	545.0
103	90.000	.90000	839.00	.2190-01	.1650-01	.2560-01	.9278	.9132-03	.1418-02	.1260	.8070	542.7
103	112.50	.23000	840.00	.3760-01	.2810-01	.4430-01	.9278	.1552-02	.2449-02	.2080	1.681	546.5
103	112.50	.25000	841.00	.2020-01	.1520-01	.2370-01	.9278	.8399-03	.1312-02	.1150	.8900	544.2
103	112.50	.27000	842.00	.1600-01	.1200-01	.1880-01	.9278	.6657-03	.1041-02	.9100-01	.6360	544.4
103	112.50	.30000	843.00	.4600-01	.3430-01	.5410-01	.9278	.1898-02	.2993-02	.2550	1.516	546.5
103	112.50	.33000	844.00	.4750-01	.3560-01	.5580-01	.9278	.1969-02	.3085-02	.2670	1.614	544.9
103	112.50	.35000	845.00	.4200-01	.3150-01	.4930-01	.9278	.1743-02	.2728-02	.2370	1.455	544.7
103	112.50	.37000	846.00	.3940-01	.2960-01	.4620-01	.9278	.1636-02	.2556-02	.2230	1.378	544.3
103	112.50	.40000	847.00	.3710-01	.2790-01	.4350-01	.9278	.1543-02	.2405-02	.2120	1.321	543.6
103	112.50	.45000	848.00	.3470-01	.2610-01	.4070-01	.9278	.1442-02	.2251-02	.1970	1.242	544.0
103	112.50	.50000	849.00	.2990-01	.2230-01	.3520-01	.9278	.1236-02	.1945-02	.1670	1.071	546.0
103	112.50	.55000	850.00	.1720-01	.1290-01	.2030-01	.9278	.7150-03	.1121-02	.9700-01	.6490	545.0
103	112.50	.60000	851.00	.2720-01	.2040-01	.3200-01	.9278	.1127-02	.1773-02	.1520	1.020	545.8
103	112.50	.65000	852.00	.2580-01	.1930-01	.3040-01	.9278	.1066-02	.1681-02	.1430	.9740	546.5
103	112.50	.70000	853.00	.3050-01	.2280-01	.3590-01	.9278	.1262-02	.1986-02	.1700	1.195	545.9
103	112.50	.75000	854.00	.2240-01	.1690-01	.2630-01	.9278	.9347-03	.1454-02	.1290	.8360	543.2
103	112.50	.80000	855.00	.3550-01	.2670-01	.4170-01	.9278	.1475-02	.2305-02	.2010	1.312	544.2
103	112.50	.90000	856.00	.1590-01	.1190-01	.1860-01	.9278	.6608-03	.1031-02	.9000-01	.5880	543.9
103	125.40	.84000	857.00	.2000-01	.1500-01	.2340-01	.9278	.8281-03	.1297-02	.1130	.6970	544.8
103	125.40	.85000	858.00	.2030-01	.1520-01	.2380-01	.9278	.8403-03	.1318-02	.1140	.7080	545.2
103	125.40	.86000	859.00	.2180-01	.1630-01	.2560-01	.9278	.9016-03	.1416-02	.1220	.7650	545.4
103	125.40	.87000	860.00	.2330-01	.1750-01	.2740-01	.9278	.9658-03	.1518-02	.1310	.8210	545.6
103	125.40	.88000	861.00	.2400-01	.1790-01	.2830-01	.9278	.9924-03	.1564-02	.1330	.8390	546.3
103	125.40	.89000	862.00	.2300-01	.1710-01	.2700-01	.9278	.9481-03	.1495-02	.1270	.8060	546.3
103	125.40	.90000	863.00	.1620-01	.1210-01	.1900-01	.9278	.6711-03	.1052-02	.9100-01	.5800	545.0
103	125.40	.91000	864.00	.6300-02	.4800-02	.7300-02	.9278	.2638-03	.4065-03	.3700-01	.2690	540.8
103	125.40	.92600	865.00	.1560-01	.1160-01	.1840-01	.9278	.6411-03	.1016-02	.8500-01	.6190	547.5
103	129.30	.80000	866.00	.2250-01	.1690-01	.2650-01	.9278	.9343-03	.1461-02	.1270	.7980	545.0
103	129.30	.81000	867.00	.2160-01	.1620-01	.2540-01	.9278	.8963-03	.1404-02	.1220	.7620	544.8
103	129.30	.82000	868.00	.2100-01	.1580-01	.2470-01	.9278	.8737-03	.1365-02	.1190	.7460	544.2
103	129.30	.83000	869.00	.2290-01	.1720-01	.2690-01	.9278	.9501-03	.1487-02	.1290	.8120	544.6
103	135.00	.40000-01	870.00	.3019	.2127	.2984	.9514	.1177-01	.1651-01	1.356	8.638	565.5
103	135.00	.50000-01	871.00	.3523	.2472	.3574	.9483	.1368-01	.1977-01	1.561	9.877	566.7
103	135.00	.60000-01	872.00	.3414	.2296	.3571	.9455	.1270-01	.1975-01	1.319	8.632	576.9
103	135.00	.70000-01	873.00	.4222	.2660	.4607	.9429	.1471-01	.2548-01	1.353	9.017	588.8

(RV7F18)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
103	135.00	.10000+00	875.00	.1934	.1388	.2166	.9364	.7679-02	.1198-01	.9260	6.036	560.2
103	135.00	.15000	876.00	.9800-01	.7130-01	.1155	.9298	.3946-02	.6388-02	.4940	3.596	555.7
103	135.00	.20000	877.00	.4830-01	.3600-01	.5690-01	.9278	.1989-02	.3150-02	.2650	1.788	547.4
103	135.00	.35000	878.00	.3530-01	.2650-01	.4140-01	.9278	.1466-02	.2288-02	.2010	1.248	544.0
103	135.00	.40000	879.00	.3370-01	.2530-01	.3950-01	.9278	.1399-02	.2183-02	.1910	1.215	543.9
103	135.00	.50000	880.00	.2380-01	.1780-01	.2800-01	.9278	.9865-03	.1551-02	.1330	.9150	545.7
103	135.00	.55000	881.00	.1640-01	.1230-01	.1930-01	.9278	.6820-03	.1065-02	.9300-01	.6210	544.2
103	135.00	.60000	882.00	.3320-01	.2480-01	.3900-01	.9278	.1371-02	.2159-02	.1850	1.241	546.1
284	135.00	.65000	883.00	.5590-01	.4020-01	.6760-01	.9278	.2221-02	.3732-02	.2680	1.622	556.1
284	135.00	.70000	884.00	.5680-01	.4060-01	.6890-01	.9278	.2243-02	.3808-02	.2670	1.884	558.0
284	135.00	.75000	885.00	.5070-01	.3630-01	.6150-01	.9278	.2007-02	.3397-02	.2400	1.502	557.4
284	135.00	.80000	886.00	.5640-01	.4070-01	.6800-01	.9278	.2248-02	.3758-02	.2730	1.711	555.2
284	135.00	.84000	887.00	.7590-01	.5980-01	.9460-01	.9130	.2678-02	.4234-02	.0000	.0000	244.7
284	135.00	.85000	888.00	.2910-01	.2120-01	.3480-01	.9278	.1174-02	.1923-02	.1470	.9330	551.7
284	135.00	.87000	890.00	.2990-01	.2180-01	.3580-01	.9278	.1205-02	.1981-02	.1500	.9530	552.5
284	135.00	.88000	891.00	.2900-01	.2100-01	.3500-01	.9278	.1160-02	.1936-02	.1420	.9020	555.2
284	135.00	.89000	892.00	.2700-01	.1940-01	.3270-01	.9278	.1076-02	.1807-02	.1300	.8410	556.5
284	135.00	.91000	894.00	.2800-02	.2000-02	.3400-02	.9278	.1117-03	.1862-03	.1400-01	.9900-01	555.0
284	135.00	.92600	895.00	.1820-01	.1300-01	.2210-01	.9278	.7191-03	.1222-02	.8500-01	.6180	558.4
284	135.00	.95000	896.00	.3730-01	.2650-01	.4540-01	.9278	.1468-02	.2515-02	.1720	1.237	559.8
284	142.30	.42000	897.00	.3550-01	.2650-01	.4170-01	.9278	.1467-02	.2310-02	.1970	1.267	543.2
284	142.30	.43500	898.00	.3350-01	.2510-01	.3940-01	.9278	.1388-02	.2181-02	.1870	1.170	542.7
284	142.30	.45000	899.00	.3470-01	.2590-01	.4080-01	.9278	.1433-02	.2257-02	.1920	1.258	543.4
284	142.30	.50000	900.00	.2780-01	.2050-01	.3310-01	.9278	.1133-02	.1833-02	.1450	.9660	549.1
284	142.30	.60000	901.00	.3680-01	.2730-01	.4360-01	.9278	.1510-02	.2413-02	.1970	1.309	546.7
284	142.30	.70000	902.00	.2020-01	.1480-01	.2410-01	.9278	.8196-03	.1335-02	.1040	.7070	550.7
284	142.30	.80000	903.00	.3110-01	.2290-01	.3700-01	.9278	.1264-02	.2046-02	.1620	1.027	549.3
284	142.30	.87000	904.00	.2960-01	.2150-01	.3550-01	.9278	.1190-02	.1965-02	.1480	.9300	553.3
284	154.98	.42000	905.00	.3840-01	.2870-01	.4530-01	.9278	.1588-02	.2505-02	.2120	1.370	543.7
284	154.98	.43500	906.00	.3730-01	.2780-01	.4390-01	.9278	.1540-02	.2427-02	.2060	1.338	543.5
284	154.98	.45000	907.00	.3700-01	.2760-01	.4370-01	.9278	.1526-02	.2417-02	.2020	1.322	544.6
284	154.98	.50000	908.00	.3410-01	.2500-01	.4060-01	.9278	.1385-02	.2245-02	.1770	1.263	549.6
284	154.98	.93500	913.00	.3760-01	.2680-01	.4580-01	.9278	.1485-02	.2534-02	.1750	1.267	559.2
284	154.98	.94500	914.00	.5510-01	.3920-01	.6730-01	.9278	.2168-02	.3722-02	.2540	1.817	560.1
284	157.50	.70000-01	918.00	.3374	.2149	.3784	.9405	.1189-01	.2094-01	1.109	7.570	584.0
284	157.50	.80000-01	919.00	.2537	.1730	.2848	.9383	.9574-02	.1576-01	1.020	6.877	570.8
284	157.50	.10000+00	920.00	.1624	.1168	.1847	.9345	.6460-02	.1022-01	.7790	5.177	556.8
284	157.50	.20000	922.00	.4900-01	.3650-01	.5770-01	.9278	.2022-02	.3194-02	.2690	1.797	544.1
284	157.50	.42000	923.00	.3620-01	.2700-01	.4260-01	.9278	.1493-02	.2356-02	.1990	1.302	543.8
284	157.50	.43500	924.00	.3660-01	.2730-01	.4310-01	.9278	.1513-02	.2385-02	.2020	1.326	543.5
284	157.50	.45000	925.00	.3660-01	.2730-01	.4310-01	.9278	.1512-02	.2387-02	.2020	1.333	543.9
284	157.50	.85000	926.00	.3250-01	.2370-01	.3890-01	.9278	.1312-02	.2155-02	.1640	1.059	552.2
284	157.50	.86000	927.00	.3240-01	.2360-01	.3880-01	.9278	.1306-02	.2147-02	.1630	1.055	552.4

ORIGINAL PAGE IS
OF POOR QUALITY

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F18)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
284	157.50	.87000	928.00	.3670-01	.2660-01	.4410-01	.9278	.1473-02	.2438-02	.1820	1.181	553.7
284	157.50	.88000	929.00	.3230-01	.2340-01	.3900-01	.9278	.1294-02	.2155-02	.1580	1.032	554.9
284	157.50	.89000	930.00	.3230-01	.2320-01	.3910-01	.9278	.1283-02	.2162-02	.1540	1.010	557.0
284	157.50	.90000	931.00	.2390-01	.1720-01	.2890-01	.9278	.9491-03	.1599-02	.1140	.7660	557.0
284	157.50	.91000	932.00	.1090-01	.7800-02	.1310-01	.9278	.4341-03	.7275-03	.5300-01	.3830	556.0
284	157.50	.92600	933.00	.1420-01	.1020-01	.1720-01	.9278	.5632-03	.9506-03	.6800-01	.4900	557.3
284	163.12	.41500	934.00	.3920-01	.2940-01	.4610-01	.9278	.1627-02	.2548-02	.2200	1.431	542.0
284	163.12	.42000	935.00	.4030-01	.3010-01	.4740-01	.9278	.1665-02	.2621-02	.2230	1.464	543.2
284	163.12	.43000	937.00	.3550-01	.2650-01	.4180-01	.9278	.1464-02	.2313-02	.1950	1.283	544.0
284	163.12	.44000	938.00	.3500-01	.2610-01	.4130-01	.9278	.1442-02	.2284-02	.1910	1.254	544.6
284	163.12	.44500	939.00	.3860-01	.2710-01	.4300-01	.9278	.1502-02	.2382-02	.1990	1.322	544.9
284	163.12	.45000	940.00	.3380-01	.2520-01	.3930-01	.9278	.1394-02	.2209-02	.1850	1.229	544.7
284	163.12	.50000	941.00	.3020-01	.2220-01	.3590-01	.9278	.1228-02	.1988-02	.1570	1.064	549.3
284	163.12	.70000	943.00	.3970-01	.2890-01	.4770-01	.9278	.1598-02	.2637-02	.1980	1.356	553.2
284	163.12	.80000	944.00	.4840-01	.3520-01	.5810-01	.9278	.1945-02	.3217-02	.2410	1.564	553.6
284	168.00	.35000	945.00	.3570-01	.2680-01	.4200-01	.9278	.1482-02	.2322-02	.2000	1.272	542.2
284	168.00	.36000	946.00	.3540-01	.2660-01	.4150-01	.9278	.1470-02	.2294-02	.2000	1.276	541.1
284	168.00	.37500	948.00	.3480-01	.2600-01	.4080-01	.9278	.1440-02	.2259-02	.1940	1.240	542.5
284	168.00	.38500	949.00	.3110-01	.2340-01	.3640-01	.9278	.1292-02	.2015-02	.1760	1.139	541.0
284	168.00	.39000	950.00	.3590-01	.2690-01	.4210-01	.9278	.1487-02	.2331-02	.2010	1.306	542.2
284	168.00	.39500	951.00	.3530-01	.2650-01	.4150-01	.9278	.1464-02	.2298-02	.1970	1.284	542.5
284	168.00	.40000	952.00	.3650-01	.2730-01	.4290-01	.9278	.1510-02	.2376-02	.2020	1.319	543.2
284	168.00	.40500	953.00	.3680-01	.2740-01	.4330-01	.9278	.1519-02	.2395-02	.2030	1.326	543.6
284	168.00	.41000	954.00	.3680-01	.2750-01	.4330-01	.9278	.1520-02	.2398-02	.2030	1.326	543.7
284	168.00	.41500	955.00	.3790-01	.2830-01	.4460-01	.9278	.1565-02	.2469-02	.2090	1.369	543.7
284	168.00	.42000	956.00	.3810-01	.2850-01	.4480-01	.9278	.1574-02	.2480-02	.2110	1.366	543.4
284	168.00	.42500	957.00	.3780-01	.2820-01	.4440-01	.9278	.1563-02	.2457-02	.2100	1.380	543.0
284	168.00	.43000	958.00	.3780-01	.2820-01	.4440-01	.9278	.1560-02	.2459-02	.2090	1.369	543.5
284	168.00	.44000	960.00	.3930-01	.2930-01	.4620-01	.9278	.1623-02	.2557-02	.2170	1.427	543.5
284	168.00	.44500	961.00	.3440-01	.2560-01	.4060-01	.9278	.1416-02	.2247-02	.1870	1.230	545.0
284	168.00	.45000	962.00	.3430-01	.2550-01	.4060-01	.9278	.1412-02	.2244-02	.1860	1.232	545.3
284	168.00	.45500	963.00	.3540-01	.2630-01	.4150-01	.9278	.1438-02	.2294-02	.1880	1.251	546.3
284	168.00	.46000	964.00	.3330-01	.2480-01	.3960-01	.9278	.1372-02	.2192-02	.1790	1.194	546.7
284	168.00	.47000	966.00	.3310-01	.2440-01	.3910-01	.9278	.1348-02	.2166-02	.1760	1.174	547.7
284	168.00	.48000	968.00	.3800-01	.2810-01	.4500-01	.9278	.1554-02	.2488-02	.2020	1.360	547.0
284	168.00	.49000	970.00	.5790-01	.4190-01	.6880-01	.9278	.2320-02	.3859-02	.2840	1.837	554.7
284	169.00	.85000	968.00	.5360-01	.3920-01	.7070-01	.9278	.2336-02	.3913-02	.2830	1.834	556.0
284	169.00	.86000	969.00	.6150-01	.4420-01	.7450-01	.9278	.2448-02	.4120-02	.2950	1.914	556.8
284	169.00	.87000	970.00	.6170-01	.4410-01	.7500-01	.9278	.2439-02	.4150-02	.2890	1.882	558.7
284	168.00	.88000	971.00	.6170-01	.4380-01	.7540-01	.9278	.2426-02	.4171-02	.2830	1.870	560.4
284	168.00	.89000	972.00	.4930-01	.3560-01	.6070-01	.9278	.1979-02	.3357-02	.2330	1.577	558.9
284	168.00	.90000	973.00	.4260-01	.3030-01	.5250-01	.9278	.1691-02	.2886-02	.2000	1.436	557.8
284	168.00	.91000	974.00	.3260-01	.2330-01	.3950-01	.9278	.1291-02	.2186-02	.1540	1.119	560.2
284	168.00	.92600	975.00	.4330-01	.3080-01	.5290-01	.9278	.1704-02	.2926-02	.2000	1.436	560.2

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F18)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(IO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
284	168.00	.95000	976.00	.5220-01	.3700-01	.6380-01	.9278	.2047-02	.3529-02	.2380	1.704	560.9
284	180.00	.20000-01	982.00	.1542	.1103	.1517	.9521	.6101-02	.8393-02	.7250	5.010	558.5
284	180.00	.25000-01	983.00	.1946	.1375	.1941	.9503	.7609-02	.1074-01	.8790	6.026	561.8
284	180.00	.30000-01	984.00	.2407	.1668	.2431	.9489	.9229-02	.1345-01	1.018	6.921	567.0
101	180.00	.40000-01	600.00	.2449	.1722	.2500	.9476	.9531-02	.1384-01	1.091	6.952	565.5
101	180.00	.50000-01	601.00	.2552	.1792	.2672	.9447	.9919-02	.1479-01	1.132	7.233	565.8
101	180.00	.60000-01	602.00	.2786	.1892	.3011	.9421	.1047-01	.1667-01	1.109	7.288	574.0
101	180.00	.70000-01	603.00	.3196	.2072	.3598	.9397	.1147-01	.1992-01	1.108	7.426	583.3
101	180.00	.80000-01	604.00	.2308	.1594	.2598	.9375	.8823-02	.1438-01	.9690	6.232	570.1
101	180.00	.10000+00	605.00	.1361	.9720-01	.1561	.9339	.5378-02	.8642-02	.6400	4.557	561.0
101	180.00	.15000	606.00	.7220-01	.5230-01	.8620-01	.9287	.2893-02	.4770-02	.3570	2.579	556.7
101	180.00	.20000	607.00	.4340-01	.3210-01	.5150-01	.9278	.1775-02	.2852-02	.2310	1.503	550.0
101	180.00	.21000	608.00	.3410-01	.2520-01	.4040-01	.9278	.1394-02	.2235-02	.1820	1.253	549.6
101	180.00	.22000	609.00	.2350-01	.1730-01	.2790-01	.9278	.9552-03	.1545-02	.1230	.9120	551.3
101	180.00	.30000	610.00	.1510-01	.1110-01	.1790-01	.9278	.6165-03	.9910-03	.8000-01	.5470	550.1
101	180.00	.35000	611.00	.3050-01	.2260-01	.3610-01	.9278	.1249-02	.1997-02	.1640	1.091	548.8
101	180.00	.36000	612.00	.2990-01	.2220-01	.3540-01	.9278	.1227-02	.1960-02	.1610	1.082	548.6
101	180.00	.37000	613.00	.3450-01	.2560-01	.4090-01	.9278	.1415-02	.2263-02	.1850	1.245	549.0
101	180.00	.37500	614.00	.3350-01	.2480-01	.3970-01	.9278	.1373-02	.2198-02	.1800	1.207	549.1
101	180.00	.39000	615.00	.3060-01	.2270-01	.3630-01	.9278	.1256-02	.2009-02	.1650	1.106	548.9
101	180.00	.38500	616.00	.3360-01	.2480-01	.3980-01	.9278	.1375-02	.2201-02	.1800	1.208	549.1
101	180.00	.39000	617.00	.3210-01	.2380-01	.3800-01	.9278	.1315-02	.2101-02	.1720	1.154	548.8
101	180.00	.39500	618.00	.3390-01	.2510-01	.4020-01	.9278	.1390-02	.2223-02	.1820	1.227	548.9
101	180.00	.40000	619.00	.3370-01	.2490-01	.3990-01	.9278	.1379-02	.2207-02	.1800	1.208	549.1
101	180.00	.40500	620.00	.3440-01	.2550-01	.4080-01	.9278	.1411-02	.2259-02	.1850	1.240	549.1
101	180.00	.41000	621.00	.3620-01	.2680-01	.4290-01	.9278	.1483-02	.2376-02	.1940	1.301	549.3
101	180.00	.41500	622.00	.3570-01	.2640-01	.4220-01	.9278	.1461-02	.2338-02	.1910	1.279	549.2
101	180.00	.42500	624.00	.3290-01	.2420-01	.3910-01	.9278	.1339-02	.2165-02	.1720	1.151	551.3
101	180.00	.43000	625.00	.3410-01	.2510-01	.4060-01	.9278	.1390-02	.2247-02	.1790	1.200	551.2
101	180.00	.44000	626.00	.3520-01	.2590-01	.4190-01	.9278	.1434-02	.2320-02	.1840	1.235	551.5
101	180.00	.44500	627.00	.3240-01	.2380-01	.3860-01	.9278	.1320-02	.2135-02	.1700	1.149	551.3
101	180.00	.45000	628.00	.3020-01	.2220-01	.3590-01	.9278	.1227-02	.1988-02	.1570	1.065	551.7
101	180.00	.45500	629.00	.3060-01	.2250-01	.3640-01	.9278	.1247-02	.2016-02	.1610	1.104	551.2
101	180.00	.46000	630.00	.3030-01	.2230-01	.3610-01	.9278	.1235-02	.1998-02	.1590	1.065	551.4
101	180.00	.47000	631.00	.2970-01	.2180-01	.3540-01	.9278	.1206-02	.1961-02	.1540	1.030	552.5
101	180.00	.49000	633.00	.3420-01	.2510-01	.4080-01	.9278	.1388-02	.2261-02	.1770	1.202	552.7
101	180.00	.50000	634.00	.2490-01	.1820-01	.2970-01	.9278	.1010-02	.1644-02	.1290	.8960	552.7
101	180.00	.55000	635.00	.2030-01	.1480-01	.2430-01	.9278	.8219-03	.1344-02	.1040	.6880	553.6
101	180.00	.60000	636.00	.3740-01	.2730-01	.4470-01	.9278	.1513-02	.2472-02	.1910	1.231	553.4
101	180.00	.65000	637.00	.4660-01	.3400-01	.5580-01	.9278	.1884-02	.3090-02	.2370	1.527	554.2
101	180.00	.70000	638.00	.4940-01	.3590-01	.5940-01	.9278	.1989-02	.3286-02	.2470	1.667	555.6
101	180.00	.75000	639.00	.4730-01	.3460-01	.5650-01	.9278	.1917-02	.3126-02	.2430	1.564	553.0
101	180.00	.80000	640.00	.7640-01	.5590-01	.9140-01	.9278	.3093-02	.5058-02	.3910	2.441	553.6

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F18)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
101	180.00	.85000	641.00	.7890-01	.5750-01	.9460-01	.9278	.3180-02	.5234-02	.3980	2.504	554.9
101	180.00	.86000	642.00	.7900-01	.5750-01	.9470-01	.9278	.3180-02	.5241-02	.3970	2.536	555.1
101	180.00	.87000	643.00	.8140-01	.5920-01	.9760-01	.9278	.3277-02	.5403-02	.4090	2.626	555.2
101	180.00	.88000	644.00	.7870-01	.5730-01	.9450-01	.9278	.3170-02	.5230-02	.3950	2.560	555.3
101	180.00	.89000	645.00	.7990-01	.5800-01	.9600-01	.9278	.3210-02	.5314-02	.3980	2.608	556.0
101	180.00	.90000	646.00	.6300-01	.4610-01	.7520-01	.9278	.2553-02	.4163-02	.3240	2.173	553.0
101	180.00	.92600	648.00	.5010-01	.3670-01	.5970-01	.9278	.2031-02	.3307-02	.2580	1.879	552.7
101	180.00	.95000	649.00	.4810-01	.3510-01	.5760-01	.9278	.1946-02	.3186-02	.2450	1.765	553.9
101	191.25	.35000	650.00	.3420-01	.2530-01	.4050-01	.9278	.1400-02	.2242-02	.1830	1.228	549.2
101	191.25	.36000	651.00	.3420-01	.2530-01	.4050-01	.9278	.1400-02	.2242-02	.1830	1.231	549.3
101	191.25	.37000	652.00	.3610-01	.2670-01	.4270-01	.9278	.1477-02	.2365-02	.1930	1.295	549.3
101	191.25	.37500	653.00	.3440-01	.2540-01	.4070-01	.9278	.1408-02	.2255-02	.1840	1.240	549.2
101	191.25	.38000	654.00	.3320-01	.2460-01	.3930-01	.9278	.1361-02	.2176-02	.1790	1.203	548.8
101	191.25	.38500	655.00	.3320-01	.2460-01	.3930-01	.9278	.1360-02	.2175-02	.1780	1.200	549.0
101	191.25	.39000	656.00	.3460-01	.2560-01	.4100-01	.9278	.1419-02	.2270-02	.1860	1.250	549.1
101	191.25	.39500	657.00	.3520-01	.2600-01	.4170-01	.9278	.1439-02	.2310-02	.1870	1.261	549.8
101	191.25	.40000	658.00	.3280-01	.2420-01	.3890-01	.9278	.1340-02	.2151-02	.1750	1.178	549.7
101	191.25	.40500	659.00	.3610-01	.2670-01	.4280-01	.9278	.1477-02	.2372-02	.1920	1.299	549.8
101	191.25	.41000	660.00	.3420-01	.2530-01	.4060-01	.9278	.1402-02	.2245-02	.1830	1.234	549.2
101	191.25	.41500	661.00	.3580-01	.2650-01	.4240-01	.9278	.1467-02	.2348-02	.1920	1.288	549.1
101	191.25	.42000	662.00	.3770-01	.2790-01	.4480-01	.9278	.1543-02	.2479-02	.2010	1.350	550.0
101	191.25	.42500	663.00	.3680-01	.2720-01	.4360-01	.9278	.1506-02	.2415-02	.1970	1.328	549.5
101	191.25	.43000	664.00	.3530-01	.2610-01	.4180-01	.9278	.1442-02	.2314-02	.1880	1.281	549.6
101	191.25	.44000	665.00	.3590-01	.2650-01	.4260-01	.9278	.1469-02	.2358-02	.1910	1.296	549.8
101	191.25	.45000	666.00	.3970-01	.2930-01	.4710-01	.9278	.1623-02	.2607-02	.2110	1.431	549.8
101	191.25	.45500	667.00	.3680-01	.2720-01	.4360-01	.9278	.1505-02	.2415-02	.1960	1.328	549.7
101	191.25	.46000	668.00	.3440-01	.2540-01	.4070-01	.9278	.1407-02	.2253-02	.1840	1.250	549.2
101	191.25	.47000	669.00	.3330-01	.2460-01	.3950-01	.9278	.1364-02	.2184-02	.1780	1.216	549.2
101	191.25	.48000	670.00	.2950-01	.2180-01	.3500-01	.9278	.1204-02	.1940-02	.1560	1.062	550.5
101	191.25	.49000	671.00	.2930-01	.2160-01	.3480-01	.9278	.1193-02	.1925-02	.1540	1.046	550.8
101	191.25	.50000	672.00	.2930-01	.2170-01	.3480-01	.9278	.1200-02	.1925-02	.1560	1.085	549.7
101	191.25	.60000	673.00	.3460-01	.2540-01	.4110-01	.9278	.1408-02	.2275-02	.1810	1.160	551.1
101	191.25	.70000	674.00	.4050-01	.2950-01	.4860-01	.9278	.1632-02	.2688-02	.2040	1.381	555.0
101	191.25	.85000	676.00	.6800-01	.4960-01	.8140-01	.9278	.2743-02	.4505-02	.3440	2.169	554.4
101	191.25	.86000	677.00	.6100-01	.4430-01	.7320-01	.9278	.2452-02	.4053-02	.3050	1.940	555.7
101	191.25	.87000	678.00	.6190-01	.4500-01	.7440-01	.9278	.2489-02	.4118-02	.3090	1.982	555.9
101	191.25	.88000	679.00	.6790-01	.4920-01	.8160-01	.9278	.2722-02	.4519-02	.3360	2.183	556.5
101	191.25	.89000	680.00	.6740-01	.4880-01	.8110-01	.9278	.2700-02	.4483-02	.3330	2.192	556.8
101	191.25	.90000	681.00	.5350-01	.3880-01	.6430-01	.9278	.2148-02	.3558-02	.2660	1.786	556.1
101	191.25	.91000	682.00	.2650-01	.1950-01	.3160-01	.9278	.1077-02	.1749-02	.1380	1.001	552.2
101	191.25	.92600	683.00	.3900-01	.2840-01	.4680-01	.9278	.1571-02	.2590-02	.1960	1.427	555.2
101	191.25	.95000	684.00	.4990-01	.3650-01	.5980-01	.9278	.2018-02	.3308-02	.2540	1.828	554.1
101	197.00	.33000	685.00	.3600-01	.2660-01	.4260-01	.9278	.1474-02	.2361-02	.1930	1.292	549.3

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RVTF18)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
101	197.00	.34000	686.00	.3320-01	.2460-01	.3940-01	.9278	.1361-02	.2181-02	.1780	1.194	549.3
101	197.00	.35000	687.00	.3210-01	.2380-01	.3800-01	.9278	.1318-02	.2102-02	.1730	1.165	548.3
101	197.00	.36000	688.00	.3260-01	.2420-01	.3860-01	.9278	.1338-02	.2135-02	.1760	1.181	548.5
101	197.00	.37000	689.00	.3330-01	.2470-01	.3940-01	.9278	.1368-02	.2182-02	.1800	1.209	548 4
101	197.00	.37500	690.00	.3910-01	.2900-01	.4620-01	.9278	.1608-02	.2559-02	.2120	1.430	548.0
101	197.00	.50000	691.00	.3140-01	.2320-01	.3720-01	.9278	.1282-02	.2059-02	.1670	1.121	549.8
101	197.00	.60000	692.00	.2890-01	.2140-01	.3430-01	.9278	.1187-02	.1896-02	.1560	1.004	548.7
101	197.00	.70000	693.00	.3340-01	.2460-01	.3970-01	.9278	.1361-02	.2196-02	.1760	1.169	550.9
101	197.00	.80000	694.00	.4710-01	.3480-01	.5590-01	.9278	.1924-02	.3094-02	.2500	1.567	550.1
101	197.00	.87000	695.00	.5580-01	.4080-01	.6680-01	.9278	.2257-02	.3697-02	.2840	1.806	554.0
101	197.00	.92600	696.00	.4760-01	.3440-01	.5730-01	.9278	.1904-02	.3174-02	.2330	1.699	557.3
101	209.80	.15000-01	697.00	.1384	.9870-01	.1685	.9278	.5463-02	.9328-02	.6470	4.411	561.5
102	209.80	.30000-01	698.00	.3063	.2139	.3047	.9506	.1184-01	.1687-01	1.336	8.994	567.d
102	209.80	.50000-01	699.00	.2992	.2109	.3088	.9463	.1168-01	.1709-01	1.347	8.484	565.3
102	209.80	.70000-01	700.00	.3929	.2536	.4356	.9411	.1404-01	.2411-01	1.348	8.945	584.6
102	209.80	.10000+00	701.00	.1806	.1289	.2054	.9350	.7135-02	.1137-01	.8480	5.362	561.9
102	209.80	.15000	702.00	.8470-01	.6150-01	.1006	.9291	.3405-02	.5567-02	.4230	3.010	556.4
102	209.80	.20000	703.00	.4350-01	.3220-01	.5150-01	.9278	.1785-02	.2853-02	.2340	1.559	549.3
102	209.80	.30000	704.00	.2950-01	.2190-01	.3480-01	.9278	.1215-02	.1925-02	.1620	1.146	547.5
102	209.80	.35000	705.00	.3500-01	.2610-01	.4130-01	.9278	.1445-02	.2288-02	.1930	1.319	547.3
102	209.80	.37500	706.00	.3210-01	.2400-01	.3780-01	.9278	.1326-02	.2091-02	.1780	1.223	546.3
102	209.80	.50000	707.00	.3400-01	.2530-01	.4010-01	.9278	.1400-02	.2221-02	.1860	1.274	547.7
102	209.80	.60000	708.00	.2390-01	.1780-01	.2820-01	.9278	.9872-03	.1561-02	.1320	.8410	546.9
102	209.80	.70000	709.00	.2300-01	.1710-01	.2720-01	.9278	.9478-03	.1505-02	.1260	.8020	547.9
102	209.80	.80000	710.00	.2820-01	.2090-01	.3340-01	.9278	.1155-02	.1847-02	.1520	.9430	549.5
102	209.80	.87000	711.00	.2910-01	.2140-01	.3460-01	.9278	.1184-02	.1916-02	.1520	.9800	552.0
102	209.80	.92600	712.00	.1620-01	.1200-01	.1930-01	.9278	.6643-03	.1066-02	.8700-01	.6280	550.3
102	217.70	.30000-01	714.00	.3220	.2240	.3175	.9516	.1240-01	.1758-01	1.386	9.327	568.9
102	217.70	.50000-01	715.00	.3695	.2581	.3784	.9473	.1429-01	.2095-01	1.613	10.41	567.8
102	217.70	.70000-01	716.00	.4467	.2755	.4965	.9419	.1525-01	.2749-01	1.354	9.036	591.9
102	217.70	.10000+00	717.00	.1930	.1374	.2183	.9357	.7605-02	.1209-01	.8980	5.780	562.6
102	217.70	.15000	718.00	.8430-01	.6140-01	.9970-01	.9294	.3400-02	.5518-02	.4260	3.101	555.5
102	217.70	.20000	719.00	.4660-01	.3480-01	.5490-01	.9278	.1925-02	.3041-02	.2580	1.738	546.7
102	217.70	.30000	720.00	.2990-01	.2220-01	.3520-01	.9278	.1231-02	.1951-02	.1640	1.171	547.6
102	217.70	.35000	721.00	.3440-01	.2560-01	.4050-01	.9278	.1418-02	.2241-02	.1900	1.315	546.9
102	217.70	.37500	722.00	.3320-01	.2480-01	.3910-01	.9278	.1374-02	.2167-02	.1850	1.280	546.3
102	217.70	.50000	723.00	.3020-01	.2250-01	.3550-01	.9278	.1246-02	.1966-02	.1670	1.155	546.5
102	217.70	.60000	724.00	.3440-01	.2570-01	.4050-01	.9278	.1421-02	.2242-02	.1910	1.319	546.4
102	217.70	.70000	725.00	.2170-01	.1610-01	.2550-01	.9278	.8940-03	.1412-02	.1200	.7610	546.7
102	217.70	.80000	726.00	.2430-01	.1810-01	.2880-01	.9278	.1000-02	.1594-02	.1320	.8290	548.7
102	217.70	.87000	727.00	.3210-01	.2370-01	.3800-01	.9278	.1310-02	.2106-02	.1700	1.088	550.6
102	217.70	.92600	728.00	.1810-01	.1300-01	.2190-01	.9278	.7206-03	.1214-02	.8700-01	.6290	559.8

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F18)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = 10.00 BETA = .0000 GRIT = 3.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
93	4.520	5.021	10.00	.0000	.0000	97.00	.3270	667.0	131.2	4.674	2537.	.2090-03
94	4.520	5.024	10.03	.0000	.0000	97.00	.3270	667.0	131.1	4.675	2536.	.2092-03
95	4.520	5.027	10.01	.0000	.0000	97.10	.3270	667.0	131.1	4.678	2536.	.2093-03
265	4.520	4.951	10.00	.0000	.0000	94.90	.3200	664.0	130.5	4.575	2530.	.2056-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
93	.1056-06	.4738-01	.1143-01
94	.1056-06	.4738-01	.1143-01
95	.1056-06	.4739-01	.1143-01
265	.1051-06	.4684-01	.1152-01

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
94	.00000	.30000-02	730.00	.5181	.3304	.3764	.9731	.1566-01	.1783-01	1.442	9.762	574.9
94	.00000	.10300-01	731.00	.2662	.1876	.3472	.9221	.8891-02	.1645-01	1.005	6.898	554.0
94	.00000	.15000-01	732.00	.3185	.2201	.4242	.9221	.1043-01	.2010-01	1.126	7.612	559.1
94	.00000	.20000-01	733.00	.5830	.3599	.4262	.9797	.1705-01	.2019-01	1.486	10.04	579.9
94	.00000	.25000-01	734.00	.8015	.4507	.5602	.9777	.2135-01	.2654-01	1.627	10.83	590.8
94	.00000	.30000-01	735.00	.7216	.4322	.5353	.9760	.2048-01	.2537-01	1.703	11.44	583.9
94	.00000	.40000-01	737.00	.5305	.3453	.4204	.9744	.1636-01	.1992-01	1.563	10.07	571.5
94	.00000	.45000-01	738.00	.5865	.3779	.4694	.9726	.1791-01	.2224-01	1.679	10.97	573.3
94	.00000	.60000-01	739.00	.5557	.3458	.4596	.9672	.1639-01	.2178-01	1.447	9.572	578.7
94	.00000	.70000-01	740.00	.5348	.3186	.4508	.9637	.1510-01	.2136-01	1.245	8.265	584.5
94	.00000	.80000-01	741.00	.3772	.2435	.3388	.9603	.1154-01	.1605-01	1.086	7.795	572.9
94	.00000	.10000+00	742.00	.3518	.2353	.3390	.9538	.1115-01	.1606-01	1.123	7.429	566.3
94	.00000	.12500	743.00	.2974	.1956	.3094	.9463	.9270-02	.1466-01	.9040	6.495	569.5
94	.00000	.15000	744.00	.2396	.1629	.2660	.9395	.7718-02	.1261-01	.8040	5.544	562.9
94	.00000	.17500	745.00	.1645	.1147	.1920	.9335	.5437-02	.9099-02	.5390	4.483	556.8
94	.00000	.20000	746.00	.1247	.8850-01	.1516	.9283	.4191-02	.7185 02	.4810	3.431	552.3

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F18)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE FT

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
94	.00000	.21500	747.00	.1044	.7420-01	.1302	.9257	.3514-02	.6167-02	.4050	2.798	551.8
94	.00000	.23000	748.00	.8470-01	.6010-01	.1083	.9234	.2848-02	.5130-02	.3270	2.410	552.2
94	.00000	.24000	749.00	.7740-01	.5490-01	.1002	.9221	.2603-02	.4749-02	.2990	2.250	552.1
94	.00000	.25000	750.00	.4280-01	.3070-01	.5480-01	.9221	.1454-02	.2598-02	.1720	1.387	549.0
94	.00000	.30000	751.00	.8470-01	.6030-01	.1093	.9221	.2859-02	.5178-02	.3320	2.171	551.0
94	.00000	.35000	752.00	.8150-01	.5860-01	.1042	.9221	.2778-02	.4936-02	.3300	2.084	548.2
94	.00000	.40000	753.00	.8100-01	.5840-01	.1033	.9221	.2768-02	.4897-02	.3310	2.125	547.6
94	.00000	.50000	754.00	.7000-01	.4960-01	.9090-01	.9221	.2351-02	.4308-02	.2690	1.754	552.7
94	.00000	.60000	755.00	.9420-01	.6710-01	.1216	.9221	.3178-02	.5760-02	.3680	2.356	551.1
94	.00000	.70000	756.00	.8860-01	.6240-01	.1155	.9221	.2957-02	.5475-02	.3340	2.197	554.1
94	.00000	.80000	757.00	.7430-01	.5280-01	.9610-01	.9221	.2500-02	.4554-02	.2880	1.800	551.8
94	.00000	.90000	758.00	.3310-01	.2360-01	.4270-01	.9221	.1120-02	.2022-02	.1300	.8420	550.6
94	55.000	.22000	759.00	.6650-01	.4830-01	.8460-01	.9215	.2290-02	.4007-02	.2800	2.083	544.9
94	55.000	.25000	760.00	.3590-01	.2620-01	.4630-01	.9197	.1244-02	.2193-02	.1540	1.208	543.2
94	55.000	.27000	761.00	.4930-01	.3570-01	.6410-01	.9197	.1693-02	.3039-02	.2050	1.524	546.1
94	55.000	.30000	762.00	.6260-01	.4560-01	.8090-01	.9197	.2161-02	.3834-02	.2660	1.599	544.2
94	55.000	.32000	763.00	.6460-01	.4720-01	.8330-01	.9197	.2237-02	.3945-02	.2770	1.641	543.2
94	55.000	.34000	764.00	.6340-01	.4640-01	.8150-01	.9197	.2199-02	.3863-02	.2730	1.626	542.6
94	55.000	.36000	765.00	.5940-01	.4360-01	.7630-01	.9197	.2065-02	.3613-02	.2580	1.557	541.9
94	55.000	.38000	766.00	.5730-01	.4210-01	.7350-01	.9197	.1994-02	.3483-02	.2500	1.524	541.6
94	55.000	.40000	767.00	.5520-01	.4060-01	.7070-01	.9197	.1923-02	.3348-02	.2420	1.517	541.2
94	67.500	.23000	768.00	.6440-01	.4710-01	.8290-01	.9196	.2232-02	.3929-02	.2770	2.066	542.8
94	67.500	.25000	769.00	.3150-01	.2310-01	.4070-01	.9190	.1097-02	.1926-02	.1380	1.074	541.5
94	67.500	.27000	770.00	.4940-01	.3600-01	.6420-01	.9190	.1705-02	.3041-02	.2100	1.532	544.0
94	67.500	.29000	771.00	.4260-01	.3120-01	.5500-01	.9190	.1479-02	.2605-02	.1950	1.150	541.9
94	67.500	.30000	772.00	.5380-01	.3930-01	.6980-01	.9190	.1862-02	.3307-02	.2300	1.411	543.3
94	67.500	.31000	773.00	.5710-01	.4180-01	.7390-01	.9190	.1979-02	.3501-02	.2460	1.495	542.6
94	67.500	.32000	774.00	.6280-01	.4620-01	.8100-01	.9190	.2187-02	.3936-02	.2750	1.659	541.2
94	67.500	.32500	775.00	.6050-01	.4440-01	.7790-01	.9190	.2106-02	.3690-02	.2650	1.603	541.1
94	67.500	.33000	776.00	.5170-01	.3800-01	.6660-01	.9190	.1801-02	.3157-02	.2270	1.373	541.2
94	67.500	.33500	777.00	.5450-01	.4010-01	.7010-01	.9190	.1900-02	.3322-02	.2400	1.455	540.7
94	67.500	.34000	778.00	.5320-01	.3920-01	.6850-01	.9190	.1856-02	.3246-02	.2340	1.420	540.8
94	67.500	.34500	779.00	.5580-01	.4110-01	.7180-01	.9190	.1948-02	.3403-02	.2460	1.499	540.5
94	67.500	.35000	780.00	.5240-01	.3860-01	.6730-01	.9190	.1828-02	.3190-02	.2310	1.411	540.4
94	67.500	.35500	781.00	.4900-01	.3600-01	.6300-01	.9190	.1708-02	.2984-02	.2160	1.320	540.6
94	67.500	.36000	782.00	.5380-01	.3960-01	.6920-01	.9190	.1878-02	.3278-02	.2380	1.453	540.5
94	67.500	.36500	783.00	.5060-01	.3740-01	.6500-01	.9190	.1770-02	.3078-02	.2259	1.373	539.8
94	67.500	.37000	784.00	.4690-01	.3460-01	.6020-01	.9190	.1637-02	.2852-02	.2080	1.274	540.1
94	67.500	.37500	785.00	.4900-01	.3610-01	.6290-01	.9190	.1712-02	.2981-02	.2170	1.344	540.1
94	67.500	.38000	786.00	.4920-01	.3620-01	.6320-01	.9190	.1717-02	.2993-02	.2180	1.351	540.2
95	67.500	.39000	787.00	.4970-01	.3660-01	.6380-01	.9190	.1733-02	.3024-02	.2200	1.365	540.4
95	67.500	.40000	788.00	.5501-01	.4060-01	.7070-01	.9190	.1922-02	.3351-02	.2440	1.527	540.3
95	67.500	.50000	789.00	.4450-01	.3250-01	.5760-01	.9190	.1542-02	.2732-02	.1910	1.230	542.9

(RV7F18)

(HM1(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
265	67.500	.60000	790.00	.8200-01	.5860-01	.9830-01	.9293	.3248-02	.5447-02	.3870	2.523	561.8
265	67.500	.70000	791.00	.8800-01	.6080-01	.1079	.9293	.3371-02	.5984-02	.3720	2.595	570.7
265	67.500	.80000	792.00	.9450-01	.6590-01	.1153	.9293	.3652-02	.6389-02	.4110	2.552	568.6
265	67.500	.90000	793.00	.6470-01	.4280-01	.8210-01	.9293	.2373-02	.4553-02	.2390	1.514	580.4
265	78.000	.27000	794.00	.7020-01	.4960-01	.8500-01	.9290	.2750-02	.4712-02	.3190	2.256	565.0
265	78.000	.29000	795.00	.1090	.7640-01	.1328	.9290	.4235-02	.7364-02	.4820	2.938	567.3
95	78.000	.30000	796.00	.4880-01	.3590-01	.6290-01	.9185	.1702-02	.2983-02	.2150	1.309	540.4
95	78.000	.31000	797.00	.4920-01	.3630-01	.6350-01	.9185	.1718-02	.3007-02	.2180	1.325	540.1
95	78.000	.32000	798.00	.4910-01	.3620-01	.6320-01	.9185	.1716-02	.2997-02	.2180	1.320	539.8
95	78.000	.32500	799.00	.5040-01	.3720-01	.6490-01	.9185	.1763-02	.3078-02	.2240	1.360	539.7
95	78.000	.33000	800.00	.4930-01	.3640-01	.6350-01	.9185	.1727-02	.3010-02	.2200	1.336	539.5
95	78.000	.33500	801.00	.5260-01	.3880-01	.6770-01	.9185	.1839-02	.3209-02	.2340	1.421	539.6
95	78.000	.34000	802.00	.4600-01	.3400-01	.5920-01	.9185	.1612-02	.2805-02	.2060	1.251	539.1
95	78.000	.34500	803.00	.4790-01	.3540-01	.6160-01	.9185	.1676-02	.2918-02	.2140	1.303	539.2
95	78.000	.35000	804.00	.4560-01	.3370-01	.5860-01	.9185	.1597-02	.2779-02	.2040	1.243	539.1
95	78.000	.35500	805.00	.4770-01	.3530-01	.6130-01	.9185	.1672-02	.2907-02	.2140	1.301	539.0
95	78.000	.36000	806.00	.4350-01	.3210-01	.5590-01	.9185	.1524-02	.2651-02	.1950	1.188	539.1
95	78.000	.36500	807.00	.4580-01	.3380-01	.5890-01	.9185	.1603-02	.2788-02	.2050	1.255	539.0
95	78.000	.37000	808.00	.4540-01	.3360-01	.5840-01	.9185	.1591-02	.2767-02	.2040	1.249	539.0
95	78.000	.37500	809.00	.4580-01	.3390-01	.5890-01	.9185	.1606-02	.2793-02	.2060	1.261	539.0
95	78.000	.38000	810.00	.4390-01	.3250-01	.5640-01	.9185	.1539-02	.2675-02	.1970	1.217	538.9
95	78.000	.39000	811.00	.3650-01	.2700-01	.4700-01	.9185	.1277-02	.2228-02	.1630	1.007	539.5
95	78.000	.40000	812.00	.3940-01	.2920-01	.5070-01	.9185	.1382-02	.2403-02	.1770	1.093	539.1
265	90.000	.40000-01	985.00	.3085	.2088	.2912	.9562	.9780-02	.1364-01	1.005	6.491	561.1
265	90.000	.50000-01	986.00	.3537	.2372	.3444	.9527	.1111-01	.1613-01	1.119	7.177	563.1
265	90.000	.60000-01	987.00	.3719	.2384	.3743	.9494	.1116-01	.1753-01	1.032	6.708	57..4
265	90.000	.80000-01	989.00	.3162	.2077	.3401	.9433	.9729-02	.1593-01	.9410	6.603	567.1
265	90.000	.15000	991.00	.1150	.8020-01	.1439	.9268	.3757-02	.6742-02	.4120	3.916	554.1
95	90.000	.20000	813.00	.3740-01	.2770-01	.4820-01	.9184	.1311-02	.2283-02	.1670	1.222	539.2
95	90.000	.24000	814.00	.3230-01	.2380-01	.4160-01	.9183	.1130-02	.1970-02	.1440	1.173	539.1
95	90.000	.27000	816.00	.3340-01	.2470-01	.4300-01	.9183	.1173-02	.2037-02	.1510	1.075	538.5
95	90.000	.28000	817.00	.3090-01	.2280-01	.3980-01	.9183	.1082-02	.1885-02	.1380	.8630	539.1
95	90.000	.30000	818.00	.4060-01	.2990-01	.5240-01	.9183	.1419-02	.2483-02	.1800	1.107	539.8
95	90.000	.31000	819.00	.4070-01	.3000-01	.5250-01	.9183	.1424-02	.2488-02	.1810	1.103	539.6
95	90.000	.32000	820.00	.4000-01	.2950-01	.5150-01	.9183	.1399-02	.2442-02	.1780	1.083	539.4
95	90.000	.32500	821.00	.3950-01	.2920-01	.5080-01	.9183	.1384-02	.2406-02	.1770	1.074	538.7
95	90.000	.33000	822.00	.4100-01	.3040-01	.5270-01	.9183	.1440-02	.2499-02	.1850	1.124	538.4
95	90.000	.33500	823.00	.3980-01	.2870-01	.4990-01	.9183	.1362-02	.2363-02	.1750	1.067	538.3
95	90.000	.34000	824.00	.4150-01	.3070-01	.5330-01	.9183	.1457-02	.2526-02	.1880	1.136	538.2
95	90.000	.34500	825.00	.4140-01	.3070-01	.5310-01	.9183	.1454-02	.2518-02	.1870	1.138	538.0
95	90.000	.35000	826.00	.4180-01	.3100-01	.5370-01	.9183	.1469-02	.2543-02	.1890	1.150	538.0
95	90.000	.36000	828.00	.3710-01	.2750-01	.4770-01	.9183	.1305-02	.2260-02	1680	1.019	538.0
95	90.000	.37000	830.00	.3890-01	.2880-01	.4980-01	.9183	.1367-02	.2360-02	.1770	1.079	537.4

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
95	90.000	.37500	831.00	.4140-01	.3070-01	.5300-01	.9183	.1456-02	.2511-02	.1890	1.155	537.3
95	90.000	.38000	832.00	.3870-01	.2870-01	.4960-01	.9183	.1361-02	.2353-02	.1760	1.077	537.7
95	90.000	.39000	833.00	.2940-01	.2180-01	.3780-01	.9183	.1035-02	.1790-02	.1340	.8270	537.8
95	90.000	.40000	834.00	.3570-01	.2640-01	.4580-01	.9183	.1252-02	.2170-02	.1610	1.002	538.1
95	90.000	.50000	835.00	.3170-01	.2340-01	.4080-01	.9183	.1108-02	.1935-02	.1410	.8950	539.5
95	90.000	.60000	836.00	.2510-01	.1860-01	.3230-01	.9183	.8825-03	.1532-02	.1130	.7590	538.4
95	90.000	.70000	837.00	.2580-01	.1920-01	.3320-01	.9183	.9078-03	.1574-02	.1170	.8270	538.2
95	90.000	.80000	838.00	.2350-01	.1750-01	.3020-01	.9183	.8293-03	.1429-02	.1080	.6720	537.2
95	90.000	.90000	839.00	.1470-01	.1100-01	.1870-01	.9183	.5224-03	.8839-03	.7000-01	.4480	533.7
95	112.50	.23000	840.00	.2300-01	.1700-01	.2960-01	.9183	.8069-03	.1401-02	.1040	.8390	538.4
95	112.50	.25000	841.00	.2800-02	.2000-02	.3500-02	.9183	.9707-04	.1673-03	.1300-01	.9800-01	537.1
95	112.50	.30000	843.00	.2680-01	.1990-01	.3450-01	.9183	.9418-03	.1635-02	.1210	.7230	538.4
95	112.50	.33000	844.00	.2640-01	.1960-01	.3380-01	.9183	.9299-03	.1604-02	.1210	.7310	537.2
95	112.50	.35000	845.00	.3020-01	.2240-01	.3860-01	.9183	.1062-02	.1831-02	.1380	.8500	537.1
95	112.50	.37000	846.00	.2970-01	.2210-01	.3800-01	.9183	.1045-02	.1800-02	.1360	.8420	536.9
95	112.50	.40000	847.00	.2750-01	.2050-01	.3510-01	.9183	.9701-03	.1666-02	.1270	.7930	536.5
95	112.50	.45000	848.00	.2590-01	.1930-01	.3320-01	.9183	.9137-03	.1574-02	.1190	.7490	537..
95	112.50	.50000	849.00	.2070-01	.1540-01	.2660-01	.9183	.7296-03	.1261-02	.9400-01	.6100	537.6
95	112.50	.55000	850.00	.1370-01	.1020-01	.1760-01	.9183	.4837-03	.8318-03	.6300-01	.4230	536.7
95	112.50	.60000	851.00	.1660-01	.1230-01	.2140-01	.9183	.5829-03	.1012-02	.7500-01	.5040	538.4
95	112.50	.65000	852.00	.1720-01	.1270-01	.2210-01	.9183	.6035-03	.1049-02	.7700-01	.5290	538.7
95	112.50	.70000	853.00	.1570-01	.1170-01	.2020-01	.9183	.5524-03	.9581-03	.7100-01	.5010	538.3
95	112.50	.80000	855.00	.1080-01	.8000-02	.1380-01	.9183	.3794-03	.6545-03	.4900-01	.3210	537.3
95	112.50	.90000	856.00	.2260-01	.1690-01	.2880-01	.9183	.8022-03	.1366-02	.1060	.6910	534.9
95	125.40	.84000	857.00	.1510-01	.1120-01	.1930-01	.9183	.5316-03	.9155-03	.6900-01	.4290	537.0
95	125.40	.85000	858.00	.1650-01	.1230-01	.2120-01	.9183	.5826-03	.1005-02	.7600-01	.4720	537.3
95	125.40	.86000	859.00	.1760-01	.1310-01	.2260-01	.9183	.6209-03	.1071-02	.8000-01	.5070	537.3
95	125.40	.87000	860.00	.1880-01	.1400-01	.2410-01	.9183	.6612-03	.1141-02	.8600-01	.5410	537.3
95	125.40	.88000	861.00	.2300-01	.1710-01	.2940-01	.9183	.8081-03	.1395-02	.1050	.6610	537.4
95	125.40	.89000	862.00	.2890-01	.2150-01	.3710-01	.9183	.1019-02	.1757-02	.1320	.8390	537.3
95	125.40	.90000	863.00	.2620-01	.1960-01	.3350-01	.9183	.9273-03	.1585-02	.1220	.7780	535.7
95	125.40	.91000	864.00	.2090-01	.1570-01	.2640-01	.9183	.7427-03	.1251-02	.1000+00	.7290	532.3
95	125.40	.92600	865.00	.3100-01	.2300-01	.3960-01	.9183	.1092-02	.1876-02	.1430	1.038	536.6
95	129.30	.80000	866.00	.1960-01	.1450-01	.2510-01	.9183	.6875-03	.1190-02	.8900-01	.5600	537.9
95	129.30	.81000	867.00	.1130-01	.8400-02	.1450-01	.9183	.3995-03	.6886-03	.5200-01	.3260	537.2
95	129.30	.82000	868.00	.1570-01	.1170-01	.2010-01	.9183	.5547-03	.9534-03	.7200-01	.4540	536.6
95	129.30	.83000	869.00	.1730-01	.1290-01	.2210-01	.9183	.6090-03	.1047-02	.7900-01	.4990	536.7
95	135.00	.40000-01	870.00	.2571	.1824	.2673	.9453	.8646-02	.1267-01	.9920	6.364	552.1
95	135.00	.50000-01	871.00	.2940	.2079	.3145	.9421	.9851-02	.1491-01	1.121	7.143	553.1
95	135.00	.60000-01	872.00	.3018	.2079	.3347	.9391	.9851-02	.1586-01	1.055	6.960	559.8
95	135.00	.70000-01	873.00	.3347	.2225	.3882	.9363	.1054-01	.1840-01	1.049	7.060	567.5
95	135.00	.10000+00	875.00	.1398	.1012	.1664	.9292	.4794-02	.7884-02	.5780	3.794	546.4
95	135.00	.15000	876.00	.7450-01	5450-01	.9450-01	.9212	.2585-02	.4476-02	.3220	2.360	542.5

(RV7F18)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
95	135.00	.20000	877.00	.3320-01	.2470-01	.4260-01	.9183	.1169-02	.2020-02	.1510	1.025	537.5
95	135.00	.35000	878.00	.2480-01	.1850-01	.3170-01	.9183	.8744-03	.1503-02	.1140	.7120	536.6
95	135.00	.40000	879.00	.1890-01	.1410-01	.2420-01	.9183	.6675-03	.1148-02	.8700-01	.5540	536.7
95	135.00	.50000	880.00	.1100-01	.8200-02	.1410-01	.9183	.3872-03	.6671-03	.5000-01	.3470	537.1
95	135.00	.55000	881.00	.3800-02	.2800-02	.4900-02	.9183	.1343-03	.2299-03	.1800-01	.1180	535.9
95	135.00	.60000	882.00	.8300-02	.6200-02	.1070-01	.9183	.2918-03	.5056-03	.3800-01	.2540	538.1
95	135.00	.65000	883.00	.1150-01	.8600-02	.1480-01	.9183	.4053-03	.7018-03	.5200-01	.3580	538.0
95	135.00	.70000	884.00	.1350-01	.1000-01	.1720-01	.9183	.4738-03	.8168-03	.6100-01	.4390	537.2
95	135.00	.75000	885.00	.5600-02	.4200-02	.7200-02	.9183	.1994-03	.3395-03	.2600-01	.1670	534.9
265	135.00	.80000	886.00	.9460-01	.6650-01	.1164	.9278	.3682-02	.6449-02	.4220	2.625	566.4
265	135.00	.84000	887.00	.7590-01	.5980-01	.9460-01	.9130	.2678-02	.4234-02	.0000	.0000	244.7
265	135.00	.85000	888.00	.1760-01	.1260-01	.2330-01	.9183	.5915-03	.1093-02	.7000-01	.4430	545.7
265	135.00	.87000	890.00	.2180-01	.1560-01	.2910-01	.9183	.7308-03	.1365-02	.8500-01	.5420	547.1
265	135.00	.88000	891.00	.2450-01	.1740-01	.3280-01	.9183	.8168-03	.1537-02	.9500-01	.6040	548.1
265	135.00	.89000	892.00	.2510-01	.1790-01	.3380-01	.9183	.8378-03	.1582-02	.9700-01	.6280	548.6
265	135.00	.91000	894.00	.1180-01	.8500-02	.1590-01	.9183	.3960-03	.7434-03	.4600-01	.3350	547.8
265	135.00	.92600	895.00	.2490-01	.1770-01	.3360-01	.9183	.8287-03	.1576-02	.9500-01	.6880	549.5
265	135.00	.95000	896.00	.3420-01	.2430-01	.4630-01	.9183	.1137-02	.2167-02	.1300	.9360	549.7
265	142.30	.42000	897.00	.1550-01	.1130-01	.2040-01	.9183	.5287-03	.9573-03	.6400-01	.4130	542.7
265	142.30	.43500	898.00	.1450-01	.1050-01	.1890-01	.9183	.4940-03	.8872-03	.6000-01	.3790	541.5
265	142.30	.45000	899.00	.1340-01	.9700-02	.1750-01	.9183	.4557-03	.8205-03	.5600-01	.3650	541.8
265	142.30	.50000	900.00	.1060-01	.7700-02	.1390-01	.9183	.3589-03	.6504-03	.4300-01	.2900	542.8
265	142.30	.60000	901.00	.1750-01	.1270-01	.2310-01	.9183	.5969-03	.1080-02	.7200-01	.4810	542.7
265	142.30	.70000	902.00	.7600-02	.5500-02	.1010-01	.9183	.2577-03	.4738-03	.3100-01	.2090	544.9
265	142.30	.80000	903.00	.1020-01	.7400-02	.1360-01	.9183	.3444-03	.6352-03	.4100-01	.2600	545.4
265	142.30	.87000	904.00	.2360-01	.1680-01	.3160-01	.9183	.7871-03	.1481-02	.9100-01	.5750	548.1
265	154.98	.42000	905.00	.1930-01	.1400-01	.2530-01	.9183	.6547-03	.1185-02	.7900-01	.5130	542.7
265	154.98	.43500	906.00	.1630-01	.1180-01	.2140-01	.9183	.5550-03	.1001-02	.6800-01	.4390	542.1
265	154.98	.45000	907.00	.1520-01	.1110-01	.2000-01	.9183	.5184-03	.9379-03	.6300-01	.4110	542.6
265	154.98	.50000	908.00	.2510-01	.1850-01	.3240-01	.9183	.8674-03	.1520-02	.1100	.7880	537.6
265	154.98	.93500	913.00	.4.10-01	.2920-01	.5540-01	.9183	.1365-02	.2594-02	.1560	1.135	549.3
265	154.98	.94500	914.00	.3930-01	.2790-01	.5310-01	.9183	.1307-02	.2485-02	.1490	1.075	549.5
265	157.50	.70000-01	918.00	.2425	.1616	.2897	.9337	.7568-02	.1357-01	.7530	5.190	564.3
265	157.50	.80000-01	919.00	.2321	.1547	.2857	.9313	.7245-02	.1338-01	.72:0	4.876	564.3
265	157.50	.10000+00	920.00	.1165	.8210-01	.1444	.9270	.3846-02	.6763-02	.4320	2.880	551.5
265	157.50	.20000	922.00	.2180-01	.1590-01	.2850-01	.9183	.7436-03	.1336-02	.9100-01	.6080	541.5
265	157.50	.42000	923.00	.1920-01	.1390-01	.2520-01	.9183	.6526-03	.1181-02	.7900-01	.5170	542.6
265	157.50	.43500	924.00	.1860-01	.1350-01	.2430-01	.9183	.6320-03	.1140-02	.7700-01	.5040	542.2
265	157.50	.45000	925.00	.1780-01	.1300-01	.2340-01	.9183	.6074-03	.1095-02	.7400-01	.4890	542.1
265	157.50	.85000	926.00	.7600-02	.5400-02	.1010-01	.9183	.2550-03	.4716-03	.3000-01	.1950	545.8
265	157.50	.86000	927.00	.9900-02	.7100-02	.1310-01	.9183	.3334-03	.6132-03	.4000-01	.2570	545.0
265	157.50	.87000	928.00	.1230-01	.8900-02	.1650-01	.9183	.4146-03	.7710-03	.4900-01	.3160	546.5
265	157.50	.88000	929.00	.1810-01	.1290-01	.2420-01	.9183	.6056-03	.1131-02	.7100-01	.4620	547.1

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F18)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
265	157.50	.89000	930.00	.2280-01	.1620-01	.3070-01	.9183	.7596-03	.1437-02	.8700-01	.5750	548.8
265	157.50	.90000	931.00	.2170-01	.1550-01	.2920-01	.9183	.7251-03	.1367-02	.8400-01	.5640	548.3
265	157.50	.91000	932.00	.1590-01	.1130-01	.2140-01	.9183	.5315-03	.1003-02	.6100-01	.4490	548.4
265	157.50	.92600	933.00	.2870-01	.2040-01	.3870-01	.9183	.9557-03	.1812-02	.1100	.7990	549.1
265	163.12	.41500	934.00	.1240-01	.9000-02	.1620-01	.9183	.4231-03	.7566-03	.5200-01	.3390	540.8
265	163.12	.42000	935.00	.1280-01	.9300-02	.1670-01	.9183	.4348-03	.7830-03	.5300-01	.3480	541.9
265	163.12	.43000	937.00	.1490-01	.1090-01	.1960-01	.9183	.5086-03	.9199-03	.6200-01	.4060	542.5
265	163.12	.44000	938.00	.1800-01	.1300-01	.2360-01	.9183	.6107-03	.1106-02	.7400-01	.4850	542.8
265	163.12	.44500	939.00	.2020-01	.1470-01	.2650-01	.9183	.6864-03	.1241-02	.8300-01	.5550	542.4
265	163.12	.45000	940.00	.1940-01	.1410-01	.2550-01	.9183	.6584-03	.1192-02	.8000-01	.5310	542.7
265	163.12	.50000	941.00	.2060-01	.1490-01	.2720-01	.9183	.6997-03	.1272-02	.8400-01	.5730	543.3
265	163.12	.60000	942.00	.2210-01	.1590-01	.2910-01	.9183	.7469-03	.1365-02	.8900-01	.5780	544.0
265	163.12	.70000	943.00	.1930-01	.1390-01	.2560-01	.9183	.6523-03	.1197-02	.7800-01	.5340	544.6
265	163.12	.80000	944.00	.1280-01	.9200-02	.1700-01	.9183	.4289-03	.7953-03	.5100-01	.3300	546.1
265	168.00	.35000	945.00	.4000-02	.3000-02	.5300-02	.9183	.1386-03	.2463-03	.1700-01	.1090	539.9
265	168.00	.36000	946.00	.5400-02	.4000-02	.7000-02	.9183	.1861-03	.3294-03	.2300-01	.1480	539.2
265	168.00	.37000	947.00	.4100-02	.3000-02	.5300-02	.9183	.1395-03	.2495-03	.1700-01	.1100	540.8
265	168.00	.37500	948.00	.4300-02	.3100-02	.5600-02	.9183	.1474-03	.2636-03	.1800-01	.1160	540.8
265	168.00	.38500	950.00	.5200-02	.3800-02	.6700-02	.9183	.1775-03	.3155-03	.2200-01	.1430	539.8
265	168.00	.39000	951.00	.6300-02	.4600-02	.8200-02	.9183	.2157-03	.3855-03	.2700-01	.1730	540.7
265	168.00	.39500	952.00	.7200-02	.5300-02	.9400-02	.9183	.2462-03	.4404-03	.3000-01	.1940	540.9
265	168.00	.40000	953.00	.7500-02	.5500-02	.9900-02	.9183	.2572-03	.4624-03	.3100-01	.2050	541.6
265	168.00	.40500	954.00	.8700-02	.6300-02	.1140-01	.9183	.2953-03	.5318-03	.3600-01	.2360	541.9
265	168.00	.41000	955.00	.1020-01	.7400-02	.1340-01	.9183	.3481-03	.6271-03	.4200-01	.2780	541.9
265	168.00	.41500	956.00	.1080-01	.7900-02	.1420-01	.9183	.3687-03	.6639-03	.4500-01	.2950	541.8
265	168.00	.42000	957.00	.1160-01	.8400-02	.1520-01	.9183	.3951-03	.7112-03	.4800-01	.3170	541.8
265	168.00	.42500	958.00	.1300-01	.9500-02	.1710-01	.9183	.4431-03	.7988-03	.5400-01	.3550	542.1
265	168.00	.43000	959.00	.1140-01	.8300-02	.1490-01	.9183	.3870-03	.6987-03	.4700-01	.3090	542.3
265	168.00	.44000	960.00	.1360-01	.9900-02	.1790-01	.9183	.4642-03	.8372-03	.5700-01	.3720	542.1
265	168.00	.44500	961.00	.1300-01	.9400-02	.1710-01	.9183	.4423-03	.7996-03	.5400-01	.3530	542.5
265	168.00	.45500	963.00	.1300-01	.9500-02	.1710-01	.9183	.4438-03	.8008-03	.5400-01	.3570	542.2
265	168.00	.46000	964.00	.1430-01	.1040-01	.1890-01	.9183	.4870-03	.8832-03	.5900-01	.3920	543.0
265	168.00	.47000	965.00	.1480-01	.1070-01	.1950-01	.9183	.5031-03	.9117-03	.6100-01	.4060	542.8
265	168.00	.48000	966.00	.1710-01	.1240-01	.2250-01	.9183	.5812-03	.1056-02	.7000-01	.4720	543.2
265	168.00	.49000	967.00	.1940-01	.1410-01	.2550-01	.9183	.6605-03	.1192-02	.8000-01	.5410	542.2
265	168.00	.85000	968.00	.1480-01	.1060-01	.1980-01	.9183	.4986-03	.9263-03	.5900-01	.3800	546.4
265	168.00	.87000	970.00	.1660-01	.1190-01	.2220-01	.9183	.5552-03	.1038-02	.6500-01	.4220	547.2
265	168.00	.88000	971.00	.1690-01	.1210-01	.2270-01	.9183	.5646-03	.1065-02	.6500-01	.4260	548.4
265	168.00	.89000	972.00	.1910-01	.1360-01	.2580-01	.9183	.6362-03	.1207-02	.7300-01	.4840	549.2
265	168.00	.90000	973.00	.1430-01	.1020-01	.1910-01	.9183	.4771-03	.8950-03	.5500-01	.3770	547.7
265	168.00	.91000	974.00	.8400-02	.6000-02	.1120-01	.9183	.2795-03	.5247-03	.3200-01	.2360	547.8
265	168.00	.92600	975.00	.1690-01	.1210-01	.2280-01	.9183	.5648-03	.1068-02	.6500-01	.4710	548.7
265	168.00	.95000	976.00	.3810-01	.2710-01	.5130-01	.9183	.1270-02	.2401-02	.1460	1.051	548.7

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F18)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
265	180.00	.20000-01	982.00	.8190-01	.5920-01	.8450-01	.9461	.2772-02	.3956-02	.3320	2.308	544.2
265	180.00	.25000-01	983.00	.1242	.8890-01	.1302	.9442	.4166-02	.6099-02	.4870	3.361	547.0
265	180.00	.30000-01	984.00	.2014	.1397	.2153	.9427	.6541-02	.1008-01	.7080	4.842	555.6
93	180.00	.40000-01	600.00	.2265	.1606	.2438	.9414	.7610-02	.1155-01	.8720	5.594	552.5
93	180.00	.50000-01	601.00	.2386	.1695	.2638	.9383	.8029-02	.1250-01	.9250	5.947	552.0
93	180.00	.60000-01	602.00	.2599	.1799	.2986	.9355	.8523-02	.1415-01	.9230	6.112	558.8
93	180.00	.70000-01	603.00	.3100	.2067	.3741	.9328	.9795-02	.1772-01	.9810	6.628	567.0
93	180.00	.80000-01	604.00	.2093	.1478	.2501	.9304	.7003-02	.1185-01	.7950	5.151	553.7
93	180.00	.10000+00	605.00	.1081	.7830-01	.1319	.9263	.3711-02	.6247-02	.4500	3.229	546.0
93	180.00	.15000	606.00	.4770-01	.3510-01	.6100 01	.9197	.1662-02	.2888-02	.2100	1.530	540.9
93	180.00	.20000	607.00	.2000-01	.1480-01	.2570-01	.9183	.7001-03	.1219-02	.9000-01	.5870	539.1
93	180.00	.21000	608.00	.1090-01	.8100-02	.1410-01	.9183	.3819-03	.6673-03	.4900-01	.3380	539.7
93	180.00	.22000	609.00	.1020-01	.7500-02	.1320-01	.9183	.3564-03	.6234-03	.4500-01	.3390	539.9
93	180.00	.38000	615.00	.1070-01	.7900-02	.1370-01	.9183	.3761-03	.6502-03	.4900-01	.3280	537.9
93	180.00	.39000	617.00	.5900-02	.4400-02	.7600-02	.9183	.2091-03	.3606-03	.2700-01	.1830	537.5
93	180.00	.39500	618.00	.7300-02	.5400-02	.9300-02	.9183	.2556-03	.4406-03	.3300-01	.2250	537.4
93	180.00	.40000	619.00	.9200-02	.6800-02	.1180-01	.9183	.3234-03	.5577-03	.4200-01	.2830	537.4
93	180.00	.40500	620.00	.8900-02	.6600-02	.1140-01	.9183	.3113-03	.5378-03	.4000-01	.2720	537.8
93	180.00	.41000	621.00	.8900-02	.6600-02	.1140-01	.9183	.3121-03	.5399-03	.4000-01	.2720	538.0
93	180.00	.41500	622.00	.1230-01	.9200-02	.1580-01	.9183	.4339-03	.7507-03	.5600-01	.3770	538.0
93	180.00	.42500	624.00	.1200-01	.8900-02	.1550-01	.9183	.4210-03	.7342-03	.5400-01	.3620	539.4
93	180.00	.43000	625.00	.1310-01	.9700-02	.1690-01	.9183	.4576-03	.7987-03	.5800-01	.3940	539.5
93	180.00	.44000	626.00	.1580-01	.1160-01	.2030-01	.9183	.5518-03	.9621-03	.7100-01	.4760	539.3
93	180.00	.44500	627.00	.1790-01	.1320-01	.2300-01	.9183	.6256-03	.1092-02	.8000-01	.5430	539.6
93	180.00	.45000	628.00	.1950-01	.1440-01	.2520-01	.9183	.6827-03	.1194-02	.8700-01	.5910	539.9
93	180.00	.45500	629.00	.1970-01	.1450-01	.2540-01	.9183	.6889-03	.1203-02	.8800-01	.6080	539.6
93	180.00	.46000	630.00	.1980-01	.1450-01	.2550-01	.9183	.6921-03	.1208-02	.8800-01	.5960	539.5
93	180.00	.47000	631.00	.2340-01	.1720-01	.3030-01	.9183	.8168-03	.1434-02	.1030	.6970	540.6
93	180.00	.49000	633.00	.2280-01	.1680-01	.2950-01	.9183	.7960-03	.1400-02	.1010	.6890	540.8
93	180.00	.50000	634.00	.2050-01	.1510-01	.2650-01	.9183	.7174-03	.1257-02	.9100-01	.6390	540.2
93	180.00	.55000	635.00	.1650-01	.1210-01	.2130-01	.9183	.5746-03	.1010-02	.7300-01	.4840	540.7
93	180.00	.60000	636.00	.2670-01	.1970-01	.3460-01	.9183	.9321-03	.1639-02	.1180	.7620	540.8
93	180.00	.65000	637.00	.3120-01	.2300-01	.4040-01	.9183	.1089-02	.1912-02	.1380	.8940	540.6
93	180.00	.70000	638.00	.3320-01	.2450-01	.4290-01	.9183	.1160-02	.2033-02	.1470	1.010	540.3
93	180.00	.75000	639.00	.2600-01	.1930-01	.3340-01	.9183	.9125-03	.1582-02	.1170	.7610	538.4
93	180.00	.80000	640.00	.3560-01	.2640-01	.4580-01	.9183	.1250-02	.2169-02	.1610	.011	538.6
93	180.00	.85000	641.00	.3850-01	.2850-01	.4940-01	.9183	.1351-02	.2342-02	.1740	1.104	538.4
93	180.00	.86000	642.00	.3680-01	.2720-01	.4740-01	.9183	.1291-02	.2244-02	.1660	1.066	538.8
93	180.00	.87000	643.00	.3850-01	.2850-01	.4960-01	.9183	.1349-02	.2351-02	.1720	1.116	539.3
93	180.00	.88000	644.00	.4390-01	.3240-01	.5660-01	.9183	.1536-02	.2680-02	.1960	1.280	539.5
93	180.00	.89000	645.00	.3740-01	.2770-01	.4820-01	.9183	.1312-02	.2282-02	.1680	1.112	538.9
93	80.00	.90000	646.00	.2860-01	.2130-01	.3650-01	.9183	.1007-02	.1730-02	.1310	.8870	536.7
93	180.00	.92600	648.00	.3770-01	.2800-01	.4830-01	.9183	.1326-02	.2286-02	.1720	1.262	537.3

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F18)

IHN1(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
93	180.00	.95000	649.00	.3360-01	.2480-01	.4330-01	.9183	.1175-02	.2053-02	.1500	1.085	539.8
93	191.25	.35000	650.00	.4500-02	.3400-02	.5800-02	.9183	.1591-03	.2747-03	.2100-01	.1390	537.6
93	191.25	.36000	651.00	.6600-02	.4900-02	.8400-02	.9183	.2319-03	.3998-03	.3000-01	.2040	537.3
93	191.25	.37000	652.00	.6600-02	.4900-02	.8500-02	.9183	.2325-03	.4009-03	.3000-01	.2040	537.4
93	191.25	.37500	653.00	.6600-02	.4900-02	.8500-02	.9183	.2329-03	.4016-03	.3000-01	.2050	537.4
93	191.25	.38000	654.00	.7400-02	.5500-02	.9500-02	.9183	.2607-03	.4491-03	.3400-01	.2290	537.3
93	191.25	.38500	655.00	.6100-02	.4500-02	.7800-02	.9183	.2151-03	.3708-03	.2800-01	.1890	537.3
93	191.25	.39000	656.00	.8000-02	.5900-02	.1020-01	.9183	.2808-03	.4845-03	.3600-01	.2470	537.5
93	191.25	.39500	657.00	.5900-02	.4400-02	.7500-02	.9183	.2070-03	.3556-03	.2700-01	.1630	536.7
93	191.25	.40000	658.00	.1390-01	.1040-01	.1780-01	.9183	.4916-03	.8454-03	.6400-01	.4350	536.9
93	191.25	.40500	659.00	.1010-01	.7500-02	.1300-01	.9183	.3567-03	.6153-03	.4600-01	.3140	537.4
93	191.25	.41000	660.00	.1130-01	.8400-02	.1450-01	.9183	.3968-03	.6853-03	.5100-01	.3480	537.7
93	191.25	.41500	661.00	.1360-01	.1010-01	.1750-01	.9183	.4793-03	.8294-03	.6200-01	.4180	538.0
93	191.25	.42000	662.00	.1360-01	.1010-01	.1750-01	.9183	.4770-03	.8275-03	.6100-01	.4160	538.5
93	191.25	.42500	663.00	.1420-01	.1050-01	.1820-01	.9183	.4990-03	.8638-03	.6400-01	.4370	538.1
93	191.25	.43000	664.00	.1500-01	.1110-01	.1930-01	.9183	.5282-03	.9162-03	.6800-01	.4660	538.4
93	191.25	.44000	665.00	.1680-01	.1240-01	.2160-01	.9183	.5893-03	.1024-02	.7600-01	.5150	538.8
93	191.25	.45000	666.00	.1670-01	.1230-01	.2140-01	.9183	.5840-03	.1015-02	.7500-01	.5100	538.9
93	191.25	.45500	667.00	.1750-01	.1290-01	.2250-01	.9183	.6129-03	.1066-02	.7900-01	.5360	538.9
93	191.25	.46000	668.00	.1820-01	.1350-01	.2340-01	.9183	.6376-03	.1108-02	.8200-01	.5590	538.7
93	191.25	.47000	669.00	.1990-01	.1470-01	.2560-01	.9183	.6985-03	.1214-02	.9000-01	.6150	538.7
93	191.25	.48000	670.00	.2400-01	.1780-01	.3080-01	.9183	.8430-03	.1461-02	.1090	.7440	538.3
93	191.25	.49000	671.00	.2330-01	.1720-01	.3010-01	.9183	.8149-03	.1425-02	.1040	.7080	539.9
93	191.25	.50000	672.00	.1910-01	.1410-01	.2450-01	.9183	.6687-03	.1164-02	.8600-01	.5970	539.1
93	191.25	.60000	673.00	.2400-01	.1780-01	.3090-01	.9183	.8412-03	.1465-02	.1080	.6930	539.1
93	191.25	.70000	674.00	.2510-01	.1850-01	.3240-01	.9183	.8756-03	.1533-02	.1110	.7590	540.1
93	191.25	.85000	676.00	.1830-01	.1360-01	.2350-01	.9183	.6448-03	.1112-02	.8400-01	.5310	537.5
93	191.25	.86000	677.00	.1940-01	.1440-01	.2490-01	.9183	.6827-03	.1181-02	.8800-01	.5660	538.0
93	191.25	.87000	678.00	.1940-01	.1440-01	.2490-01	.9183	.6810-03	.1180-02	.8800-01	.5680	538.3
93	191.25	.88000	679.00	.2080-01	.1540-01	.2680-01	.9183	.7309-03	.1270-02	.9400-01	.6150	538.8
93	191.25	.89000	680.00	.1910-01	.1420-01	.2450-01	.9183	.6704-03	.1163-02	.8600-01	.5740	538.5
93	191.25	.90000	681.00	.1280-01	.9500-02	.1640-01	.9183	.4505-03	.7772-03	.5800-01	.3960	537.5
93	191.25	.91000	682.00	.2000-02	.1500-02	.2500-02	.9183	.7096-04	.1204-03	.9000-02	.6900-01	534.4
93	191.25	.92600	683.00	.1280-01	.9500-02	.1630-01	.9183	.4502-03	.7744-03	.5900-01	.4310	537.0
93	191.25	.95000	684.00	.3290-01	.2430-01	.4230-01	.9183	.1151-02	.2005-02	.1470	1.067	539.3
93	197.00	.33000	685.00	.5600-02	.4100-02	.7100-02	.9183	.1960-03	.3373-03	.2500-01	.1720	537.1
93	197.00	.34000	686.00	.5800-02	.4300-02	.7400-02	.9183	.2039-03	.3508-03	.2700-01	.1790	537.0
93	197.00	.35000	687.00	.7900-02	.5900-02	.1010-01	.9183	.2789-03	.4794-03	.3600-01	.2460	536.8
93	197.00	.36000	688.00	.4900-02	.3700-02	.6300-02	.9183	.1735-03	.2979-03	.2300-01	.1530	536.6
93	197.00	.37000	689.00	.6500-02	.4800-02	.8300-02	.9183	.2281-03	.3922-03	.3000-01	.2010	536.9
93	197.00	.37500	690.00	.3700-02	.2700-02	.4700-02	.9183	.1288-03	.2215-03	.1700-01	.1140	537.0
93	197.00	.50000	691.00	.2150-01	.1530-01	.2760-01	.9183	.7527-03	.1310-02	.9600-01	.6510	539.0
93	197.00	.60000	692.00	.1930-01	.1430-01	.2480-01	.9183	.6793-03	.1176-02	.8800-01	.5680	538.1

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F18)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
93	197.00	.70000	693.00	.3990-01	.2960-01	.5110-01	.9183	.1402-02	.2419-02	.1820	1.240	537.5
93	197.00	.80000	694.00	.2470-01	.1840-01	.3150-01	.9183	.8699-03	.1494-02	.1140	.7170	536.7
93	197.00	.87000	695.00	.1750-01	.1300-01	.2250-01	.9183	.6173-03	.1066-02	.8000-01	.5120	537.7
93	197.00	.92600	696.00	.1850-01	.1370-01	.2360-01	.9183	.6514-03	.1120-02	.8500-01	.6240	536.9
265	209.80	.15000-01	697.00	.2561	.1852	.3071	.9283	.1024-01	.1698-01	.0000	.0000	539.9
94	209.80	.30000-01	698.00	.2501	.1765	.2622	.9445	.8361-02	.1242-01	.9470	6.419	553.8
94	209.80	.50000-01	699.00	.2728	.1939	.2971	.9400	.9189-02	.1408-01	1.060	6.721	551.7
94	209.80	.70000-01	700.00	.3116	.2092	.3680	.9343	.9912-02	.1744-01	1.006	6.738	565.5
94	209.80	.10000+00	701.00	.1366	.9840-01	.1655	.9275	.4664-02	.7844-02	.5560	3.545	547.7
94	209.80	.15000	702.00	.5320-01	.3910-01	.6780-01	.9203	.1852-02	.3214-02	.2320	1.667	541.5
94	209.80	.20000	703.00	.2200-01	.1630-01	.2820-01	.9183	.7709-03	.1338-02	.9900-01	.6630	538.4
94	209.80	.30000	704.00	.3200-02	.2400-02	.4100-02	.9183	.1135-03	.1958-03	.1500-01	.1050	537.4
94	209.80	.35000	705.00	.8100-02	.6000-02	.1040-01	.9183	.2853-03	.4910-03	.3700-01	.2550	536.9
94	209.80	.37500	706.00	.1290-01	.9600-02	.1650-01	.9183	.4567-03	.7837-03	.6000-01	.4120	536.4
94	209.80	.50000	707.00	.1510-01	.1120-01	.1930-01	.9183	.5301-03	.9152-03	.6900-01	.4720	537.5
94	209.80	.60000	708.00	.2210-01	.1640-01	.2830-01	.9183	.7789-03	.1342-02	.1010	.6480	537.1
94	209.80	.70000	709.00	.1430-01	.1070-01	.1830-01	.9183	.5058-03	.8680-03	.6600-01	.4230	536.4
94	209.80	.80000	710.00	.1340-01	.1000-01	.1710-01	.9183	.4731-03	.8102-03	.6200-01	.3880	536.0
94	209.80	.87000	711.00	.2280-01	.1690-01	.2910-01	.9183	.8015-03	.1380-02	.1040	.6620	537.1
94	209.80	.92600	712.00	.3150-01	.2340-01	.4020-01	.9183	.1110-02	.1904 02	.1450	1.061	536.3
94	217.70	.30000-01	714.00	.2676	.1879	.2781	.9455	.8902-02	.1318-01	.9960	6.751	555.1
94	217.70	.50000-01	715.00	.2897	.2046	.3133	.9410	.9694-02	.1484-01	1.100	7.154	553.5
94	217.70	.70000-01	716.00	.3329	.2204	.3918	.9353	.1045-01	.1857-01	1.031	6.961	568.3
94	217.70	.10000+00	717.00	.1359	.9840-01	.1630	.9283	.4660-02	.7724-02	.5620	3.647	546.4
94	217.70	.15000	718.00	.5850-01	.4300-01	.7420-01	.9207	.2036-02	.3518-02	.2560	1.876	541.4
94	217.70	.20000	719.00	.2710-01	.2010-01	.3470-01	.9183	.9545-03	1646-02	.1240	.8380	537.3
94	217.70	.30000	720.00	.5000-02	.3700-02	.6400-02	.9183	.1770-03	.3052-03	.2300-01	.1650	537.3
94	217.70	.35000	721.00	.1610-01	.1200-01	.2070-01	.9183	.5689-03	.9785-03	.7400-01	.5160	536.8
94	217.70	.37500	722.00	.1820-01	.1350-01	.2320-01	.9183	.6399-03	.1100-02	.8300-01	.5810	536.7
94	217.70	.50000	723.00	.1390-01	.1040-01	.1780-01	.9183	.4905-03	.8426-03	.6400-01	.4440	536.6
94	217.70	.60000	724.00	.2050-01	.1530-01	.2620-01	.9183	.7240-03	.1242-02	.9500-01	.6080	536.3
94	217.70	.70000	725.00	.1110-01	.8200-02	.1410-01	.9183	.3905-03	.6685-03	.5100-01	.3270	535.9
94	217.70	.80000	726.00	.1170-01	.8700-02	.1490-01	.9183	.4128-03	.7053-03	.5400-01	.3430	535.6
94	217.70	.87000	727.00	.2320-01	.1730-01	.2970-01	.9183	.8186-03	.1407-02	.1070	.6850	536.7
94	217.70	.92600	728.00	.1980-01	.1470-01	.2520-01	.9183	.6989-03	.1195-02	.9200-01	.6710	535.7

ORIGINAL PAGE IS OF POOR QUALITY

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = 10.00 BETA = .0000 GRIT = 3.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
66	5.500	4.933	10.02	.0000	.0000	178.0	.1910	746.0	105.9	4.052	2773.	.1516-03
67	5.500	4.947	10.04	.0000	.0000	177.9	.1910	745.0	105.6	4.050	2770.	.1519-03
68	5.500	4.953	10.04	.0000	.0000	177.9	.1910	744.0	105.6	4.050	2769.	.1520-03
260	5.500	4.977	9.980	.0000	.0000	178.2	.1920	742.0	105.3	4.056	2766.	.1526-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
66	.8523-07	.4482-01	.1368-01
67	.8505-07	.4480-01	.1366-01
68	.8498-07	.4479-01	.1366-01
260	.8479-07	.4481-01	.1363-01

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
67	.00000	.30000-02	730.00	.4292	.3220	.3566	.9806	.1442-01	.1597-01	2.150	14.41	595.7
67	.00000	.10300-01	731.00	.2300	.1836	.2742	.9182	.8223-02	.1229-01	1.515	10.36	560.5
67	.00000	.15000-01	732.00	.2641	.2097	.3162	.9182	.9395-02	.1417-01	1.699	11.46	563.9
67	.00000	.20000-01	733.00	.4915	.3678	.4153	.9773	.1648-01	.1860-01	2.440	16.34	596.7
67	.00000	.25000-01	734.00	.6796	.4846	.3643	.9754	.2171-01	.2528-01	2.816	18.52	615.0
67	.00000	.30000-01	735.00	.6245	.4570	.5319	.9738	.2047-01	.2383-01	2.842	18.89	605.9
67	.00000	.40000-01	737.00	.4858	.3709	.4268	.9723	.1662-01	.1912-01	2.616	16.73	587.3
67	.00000	.45000-01	738.00	.5183	.3941	.4589	.9705	.1765-01	.2056-01	2.743	17.78	589.4
67	.00000	.60000-01	739.00	.4829	.3572	.4358	.9653	.1600-01	.1952-01	2.287	14.96	601.8
67	.00000	.70000-01	740.00	.4298	.3205	.3975	.9619	.1436-01	.1781-01	2.103	13.86	598.3
67	.00000	.80000-01	741.00	.3943	.2958	.3729	.9586	.1325-01	.1671-01	1.977	14.03	595.6
67	.00000	.10000+00	742.00	.3583	.2750	.3537	.9521	.1232-01	.1584-01	1.973	12.94	584.6
67	.00000	.12500	743.00	.2701	.2055	.2798	.9445	.9208-02	.1253-01	1.434	10.21	589.1
67	.00000	.15000	744.00	.2170	.1686	.2337	.9375	.7554-02	.1047-01	1.263	8.644	577.6
67	.00000	.17500	745.00	.1463	.1155	.1627	.9311	.5176-02	.7287-02	.9170	6.818	567.7
67	.00000	.20000	746.00	.1177	.9380-01	.1345	.9255	.4202-02	.6024-02	.7710	5.476	561.2

(RV7F18)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
67	.00000	.21500	747.00	.9530-01	.7620-01	.1105	.9225	.3415-02	.4952-02	.6350	4.375	558.7
67	.00000	.23000	748.00	.7910-01	.6320-01	.9330-01	.9198	.2833-02	.4178-02	.5260	3.862	559.2
67	.00000	.24000	749.00	.6820-01	.5450-01	.8110-01	.9182	.2443-02	.3632-02	.4540	3.407	558.7
67	.00000	.25000	750.00	.3740-01	.3000-01	.4430-01	.9182	.1346-02	.1984-02	.2550	2.052	555.4
67	.00000	.30000	751.00	.7360-01	.5890-01	.8760-01	.9182	.2637-02	.3925-02	.4900	3.196	559.0
67	.00000	.35000	752.00	.7510-01	.6010-01	.8920-01	.9182	.2693-02	.3994-02	.5040	3.168	557.6
67	.00000	.40000	753.00	.6780-01	.5400-01	.8100-01	.9182	.2419-02	.3628-02	.4430	2.824	561.8
67	.00000	.50000	754.00	.6560-01	.5120-01	.7980-01	.9182	.2293-02	.3574-02	.3900	2.516	574.8
67	.00000	.60000	755.00	.5880-01	.4610-01	.7120-01	.9182	.2065-02	.3192-02	.3560	2.255	572.2
67	.00000	.70000	756.00	.6470-01	.5020-01	.7930-01	.9182	.2248-02	.3552-02	.3730	2.422	578.9
67	.00000	.80000	757.00	.5960-01	.4700-01	.7180-01	.9182	.2105-02	.3215-02	.3720	2.303	568.3
67	.00000	.90000	758.00	.3510-01	.2800-01	.4180-01	.9182	.1255-02	.1874-02	.2320	1.487	560.3
67	55.000	.22000	759.00	.5950-01	.4820-01	.7040-01	.9175	.2157-02	.3152-02	.420[illegible]	3.121	550.0
67	55.000	.25000	760.00	.2810-01	.2270-01	.3360-01	.9150	.1019-02	.1504-02	.2000	1.565	548.5
67	55.000	.27000	761.00	.3880-01	.3130 01	.4670-01	.9150	.1401-02	.2090-02	.2690	1.993	552.9
67	55.000	.30000	762.00	.5650-01	.4570-01	.6770-01	.9150	.2049-02	.3031-02	.4000	2.402	549.5
67	55.000	.32000	763.00	.5530-01	.4480-01	.6610-01	.9150	.2008-02	.2960-02	.3950	2.338	547.9
67	55.000	.34000	764.00	.5290-01	.4290-01	.6320-01	.9150	.1923-02	.2831-02	.3800	2.252	547.3
67	55.000	.36000	765.00	.5390-01	.4380-01	.6430-01	.9150	.1961-02	.2883-02	.3880	2.335	546.8
67	55.000	.39000	766.00	.5310-01	.4310-01	.6340-01	.9150	.1933-02	.2841-02	.3820	2.325	546.9
67	55.000	.40000	767.00	.5150-01	.4180-01	.6150-01	.9150	.1873-02	.2754-02	.3710	2.318	546.8
67	67.500	.23000	768.00	.4430-01	.3600-01	.5300-01	.9150	.1612-02	.2372-02	.3190	2.372	547.0
67	67.500	.25000	769.00	.2380-01	.1930-01	.2850-01	.9141	.8662-03	.1277-02	.1720	1.342	545.7
67	67.500	.27000	770.00	.3700-01	.3000-01	.4460-01	.9141	.1342-02	.1997-02	.2620	1.908	549.6
67	67.500	.29000	771.00	.3400-01	.2760-01	.4080-01	.9141	.1236-02	.1828-02	.2440	1.513	547.1
67	67.500	.30000	772.00	.4830-01	.3910-01	.5800-01	.9141	.1754-02	.2597-02	.3460	2.113	547.6
67	67.500	.31000	773.00	.4730-01	.3840-01	.5670-01	.9141	.1720-02	.2541-02	.3400	2.063	546.8
67	67.500	.32000	774.00	.4540-01	.3690-01	.5440-01	.9141	.1654-02	.2438-02	.3290	1.981	545.7
67	67.500	.32500	775.00	.4580-01	.3720-01	.5480-01	.9141	.1667-02	.2455-02	.3330	2.007	545.2
67	67.500	.33000	776.00	.4570-01	.3720-01	.5470-01	.9141	.1664-02	.2449-02	.3320	2.011	545.0
67	67.500	.33500	777.00	.4620-01	.3760-01	.5530-01	.9141	.1685-02	.2477-02	.3370	2.042	544.5
67	67.500	.34000	778.00	.4490-01	.3660-01	.5380-01	.9141	.1638-02	.2408-02	.3280	1.985	544.6
67	67.500	.34500	779.00	.4590-01	.3740-01	.5490-01	.9141	.1673-02	.2460-02	.3350	2.034	544.5
67	67.500	.35000	780.00	.4450-01	.3620-01	.5330-01	.9141	.1624-02	.2387-02	.3250	1.977	544.6
67	67.500	.35500	781.00	.4660-01	.3790-01	.5570-01	.9141	.1699-02	.2496-02	.3410	2.079	544.2
67	67.500	.36000	782.00	.4650-01	.3780-01	.5560-01	.9141	.1695-02	.2490-02	.3390	2.071	544.4
67	67.500	.36500	783.00	.4530-01	.3700-01	.5420-01	.9141	.1655-02	.2428-02	.3330	2.027	543.6
67	67.500	.37000	784.00	.4300-01	.3500-01	.5150-01	.9141	.1570-02	.2306-02	.3150	1.927	544.2
67	67.500	.37500	785.00	.4490-01	.3650-01	.5360-01	.9141	.1637-02	.2403-02	.3290	2.028	544.0
67	67.500	.38000	786.00	.4240-01	.3450-01	.5070-01	.9141	.1546-02	.2273-02	.3100	1.916	544.5
67	67.500	.39000	787.00	.4490-01	.3650-01	.5370-01	.9141	.1635-02	.2406-02	.3260	2.025	545.0
67	67.500	.40000	788.00	.4360-01	.3540-01	.5220-01	.9141	.1587-02	.2337-02	.3170	1.980	545.2
68	67.500	.50000	789.00	.4090-01	.3300-01	.4940-01	.9141	.1480-02	.2213-02	.2860	1.830	551.5

DATE 03 JUN 75

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F18)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
260	67.500	.60000	790.00	.8200-01	.5860-01	.9830-01	.9293	.3248-02	.5447-02	.3870	2.523	561.8
260	67.500	.70000	791.00	.8800-01	.6080-01	.1079	.9293	.3371-02	.5684-02	.3720	2.595	570.7
260	67.500	.80000	792.00	.9450-01	.6590-01	.1153	.9293	.3652-02	.6389-02	.4110	2.552	568.6
260	67.500	.90000	793.00	.6470-01	.4280-01	.8210-01	.9293	.2373-02	.4553-02	.2390	1.514	580.4
260	78.000	.27000	794.00	.7020-01	.4960-01	.8500-01	.9290	.2750-02	.4712-02	.3190	2.256	565.0
260	78.000	.29000	795.00	.1090	.7640-01	.1328	.9290	.4235-02	.7364-02	.4820	2.938	567.3
68	78.000	.30000	796.00	.3940-01	.3200-01	.4750-01	.9134	.1433-02	.2126-02	.2830	1.717	546.4
68	78.000	.31000	797.00	.3970-01	.3220-01	.4780-01	.9134	.1443-02	.2139-02	.2860	1.735	545.9
68	78.000	.32000	798.00	.3940-01	.3200-01	.4740-01	.9134	.1436-02	.2124-02	.2850	1.722	545.3
68	78.000	.32500	799.00	.4000-01	.3250-01	.4810-01	.9134	.1458-02	.2156-02	.2900	1.754	545.2
68	78.000	.33000	800.00	.4020-01	.3270-01	.4830-01	.9134	.1464-02	.2164-02	.2920	1.765	544.9
68	78.000	.33500	801.00	.4170-01	.3390-01	.5010-01	.9134	.1517-02	.2244-02	.3020	1.827	545.1
68	78.000	.34000	802.00	.3850-01	.3130-01	.4630-01	.9134	.1404-02	.2074-02	.2800	1.696	544.5
68	78.000	.34500	803.00	.3930-01	.3200-01	.4730-01	.9134	.1434-02	.2118-02	.2860	1.736	544.6
68	78.000	.35000	804.00	.3920-01	.3190-01	.4710-01	.9134	.1430-02	.2112-02	.2860	1.733	544.4
68	78.000	.35500	805.00	.4010-01	.3270-01	.4820-01	.9134	.1463-02	.2159-02	.2930	1.776	544.1
68	78.000	.36000	806.00	.5770-01	.4700-01	.6910-01	.9134	.2106-02	.3097-02	.4240	2.584	542.7
68	78.000	.36500	807.00	.3790-01	.3090-01	.4560-01	.9134	.1383-02	.2041-02	.2770	1.688	544.2
68	78.000	.37000	808.00	.4020-01	.3270-01	.4830-01	.9134	.1465-02	.2163-02	.2930	1.792	544.3
68	78.000	.37500	809.00	.3460-01	.2820-01	.4160-01	.9134	.1263-02	.1864-02	.2530	1.546	544.1
68	78.000	.38000	810.00	.3580-01	.2910-01	.4300-01	.9134	.1305-02	.1927-02	.2610	1.604	544.4
68	78.000	.39000	811.00	.3680-01	.2990-01	.4420-01	.9134	.1340-02	.1981-02	.2670	1.646	545.0
68	78.000	.40000	812.00	.3740-01	.3040-01	.4500-01	.9134	.1364-02	.2014-02	.2720	1.680	544.4
260	90.000	.40000-01	985.00	.2539	.2012	.2481	.9545	.9018-02	.1112-01	1.613	10.40	563.7
260	90.000	.50000-01	986.00	.3300	.2611	.3282	.9511	.1170-01	.1471-01	2.081	13.34	564.6
260	90.000	.60000-01	987.00	.3382	.2594	.3429	.9477	.1163-01	.1537-01	1.853	11.98	583.1
260	90.000	.80000-01	989.00	.2858	.2226	.3005	.9414	.9974-02	.1346-01	1.672	11.68	574.8
260	90.000	.15000	991.00	.1185	.9430-01	.1369	.9237	.4227-02	.6136-02	.7690	5.608	560.5
68	90.000	.20000	813.00	.3070-01	.2500-01	.3690-01	.9133	.1120-02	.1654-02	.2240	1.629	544.3
68	90.000	.24000	814.00	.2510-01	.2040-01	.3020-01	.9130	.9147-03	.1352-02	.1830	1.482	544.1
68	90.000	.27000	816.00	.2140-01	.1740-01	.2570-01	.9130	.7783-03	.1152-02	.1550	1.105	544.6
68	90.000	.29000	817.00	.2330-01	.1900-01	.2810-01	.9130	.8504-03	.1258-02	.1700	1.058	544.2
68	90.000	.30000	818.00	.2800-01	.2280-01	.3370-01	.9130	.1020-02	.1510-02	.2030	1.244	544.7
68	90.000	.31000	819.00	.3040-01	.2470-01	.3660-01	.9130	.1108-02	.1639-02	.2210	1.344	544.3
68	90.000	.32000	820.00	.3190-01	.2590-01	.3840-01	.9130	.1162-02	.1719-02	.2320	1.406	544.2
68	90.000	.32500	821.00	.3420-01	.2780-01	.4110-01	.9130	.1246-02	.1841-02	.2490	1.506	543.9
68	90.000	.33000	822.00	.3330-01	.2710-01	.4000-01	.9130	.1216-02	.1794-02	.2440	1.479	543.3
68	90.000	.33500	823.00	.3390-01	.2760-01	.4070-01	.9130	.1236-02	.1823-02	.2480	1.509	543.1
68	90.000	.34000	824.00	.3560-01	.2900-01	.4280-01	.9130	.1300-02	.1916-02	.2610	1.579	543.0
68	90.000	.34500	825.00	.3420-01	.2790-01	.4120-01	.9130	.1251-02	.1844-02	.2520	1.524	542.9
68	90.000	.35000	826.00	.3390-01	.2760-01	.4070-01	.9130	.1237-02	.1824-02	.2490	1.508	542.8
68	90.000	.36000	828.00	.3550-01	.2890-01	.4270-01	.9130	.1296-02	.1912-02	.2610	1.575	543.1
68	90.000	.37000	830.00	.3210-01	.2610-01	.3850-01	.9130	.1171-02	.1725-02	.2360	1.434	542.5

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F18)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
68	90.000	.37500	831.00	.3330-01	.2720-01	.4000-01	.9130	.1217-02	.1792-02	.2460	1.501	542.3
68	90.000	.38000	832.00	.3250-01	.2650-01	.3910-01	.9130	.1189-02	.1751-02	.2400	1.464	542.6
68	90.000	.39000	833.00	.3030-01	.2470-01	.3650-01	.9130	.1108-02	.1634-02	.2230	1.377	542.9
68	90.000	.40000	834.00	.3150-01	.2570-01	.3780-01	.9130	.1149-02	.1694-02	.2310	1.432	542.8
68	90.000	.50000	835.00	.3100-01	.2520-01	.3740-01	.9130	.1128-02	.1677-02	.2230	1.410	546.4
68	90.000	.60000	836.00	.2540-01	.2070-01	.3060-01	.9130	.9294-03	.1369-02	.1870	1.250	542.7
68	90.000	.70000	837.00	.2390-01	.1940-01	.2870-01	.9130	.8701-03	.1285-02	.1740	1.230	543.7
68	90.000	.80000	838.00	.2350-01	.1920-01	.2810-01	.9130	.8600-03	.1259-02	.1760	1.095	539.9
68	90.000	.90000	839.00	.1750-01	.1430-01	.2100-01	.9130	.6414-03	.9406-03	.1310	.8370	540.6
68	112.50	.23000	840.00	.2180-01	.1780-01	.2620-01	.9130	.7966-03	.1174-02	.1600	1.296	542.7
68	112.50	.25000	841.00	.1160-01	.9400-02	.1390-01	.9130	.4224-03	.6237-03	.8500-01	.6580	543.5
68	112.50	.27000	842.00	.2000-03	.2000-03	.3000-03	.9130	.7620-05	.1124-04	.2000-02	.1100-01	543.1
68	112.50	.30000	843.00	.1560-01	.1270-01	.1870-01	.9130	.5687-03	.8384-03	.1140	.6820	542.9
68	112.50	.33000	844.00	.2350-01	.1910-01	.2820-01	.9130	.8564-03	.1263-02	.1720	1.041	543.0
68	112.50	.35000	845.00	.1620-01	.1320-01	.1950-01	.9130	.5930-03	.8720-03	.1200	.7370	541.8
68	112.50	.37000	846.00	.1450-01	.1180-01	.1740-01	.9130	.5306-03	.7806-03	.1070	.6630	542.0
68	112.50	.40000	847.00	.2170-01	.1770-01	.2600-01	.9130	.7941-03	.1165-02	.1620	1.010	540.7
68	112.50	.45000	848.00	.1810-01	.1480-01	.2170-01	.9130	.6617-03	.9716-03	.1340	.8470	541.2
68	112.50	.50000	849.00	.1850-01	.1510-01	.2220-01	.9130	.6744-03	.9953-03	.1350	.8720	543.4
68	112.50	.55000	850.00	.1220-01	.1000-01	.1470-01	.9130	.4473-03	.6591-03	.9000-01	.6030	542.7
68	112.50	.60000	851.00	.1480-01	.1210-01	.1770-01	.9130	.5406-03	.7927-03	.1100	.7400	540.6
68	112.50	.65000	852.00	.1590-01	.1300-01	.1900-01	.9130	.5810-03	.8518-03	.1180	.8080	540.5
68	112.50	.70000	853.00	.1770-01	.1440-01	.2120-01	.9130	.6465-03	.9496-03	.1310	.9230	541.3
68	112.50	.75000	854.00	.1620-01	.1330-01	.1950-01	.9130	.5952-03	.8717-03	.1210	.7900	540.1
68	112.50	.80000	855.00	.1700-01	.1390-01	.2030-01	.9130	.6236-03	.9104-03	.1280	.8370	538.6
68	112.50	.90000	856.00	.2410-01	.1970-01	.2890-01	.9130	.8835-03	.1295-02	.1800	1.171	540.4
68	125.40	.84000	857.00	.1950-01	.1600-01	.2340-01	.9130	.7168-03	.1047-02	.1470	.9130	538.8
68	125.40	.85000	858.00	.2280-01	.1870-01	.2730-01	.9130	.8355-03	.1221-02	.1710	1.069	539.1
68	125.40	.86000	859.00	.2480-01	.2030-01	.2960-01	.9130	.9073-03	.1327-02	.1860	1.168	539.4
68	125.40	.87000	860.00	.2660-01	.2170-01	.3180-01	.9130	.9736-03	.1425-02	.1990	1.255	539.8
68	125.40	.88000	861.00	.2850-01	.2330-01	.3410-01	.9130	.1042-02	.1527-02	.2120	1.337	540.5
68	125.40	.89000	862.00	.2910-01	.2370-01	.3480-01	.9130	.1064-02	.1561-02	.2160	1.370	540.9
68	125.40	.90000	863.00	.2830-01	.2310-01	.3400-01	.9130	.1037-02	.1521-02	.2110	1.345	540.8
68	125.40	.91000	864.00	.2010-01	.1640-01	.2400-01	.9130	.7367-03	.1077-02	.1510	1.103	539.1
68	125.40	.92600	865.00	.2840-01	.2310-01	.3400-01	.9130	.1036-02	.1525-02	.2090	1.520	542.2
68	129.30	.80000	866.00	.2340-01	.1920-01	.2790-01	.9130	.8584-03	.1251-02	.1710	1.117	538.0
68	129.30	.81000	867.00	.1960-01	.1610-01	.2350-01	.9130	.7194-03	.1051-02	.1480	.9270	538.8
68	129.30	.82000	868.00	.1770-01	.1450-01	.2110-01	.9130	.6489-03	.9468-03	.1330	.8380	538.4
68	129.30	.83000	869.00	.1830-01	.1490-01	.2180-01	.9130	.6696-03	.9780-03	.1380	.8650	538.8
68	135.00	.40000-01	870.00	.2532	.1986	.2625	.9435	.8898-02	.1176-01	1.537	9.765	571.3
68	135.00	.50000-01	871.00	.2885	.2269	.3046	.9402	.1017-01	.1365-01	1.773	11.20	569.7
68	135.00	.60000-01	872.00	.2528	.1965	.2730	.9371	.8800-02	.1223-01	1.469	9.608	577.6
68	135.00	.70000-01	873.00	.2941	.2248	.3260	.9341	.1007-01	.1460-01	1.590	10.61	586.2

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F18)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
68	135.00	.10000+0	875.00	.1227	.9850-01	.1389	.9263	.4413-02	.6223-02	.8320	5.433	555.7
68	135.00	.15000	876.00	.6400-01	.5180-01	.7590-01	.9170	.2321-02	.3399-02	.4520	3.306	549.3
68	135.00	.20000	877.00	.2550-01	.2080-01	.3060-01	.9130	.9332-03	.1369-02	.1900	1.282	540.9
68	135.00	.35000	878.00	.1250-01	.1020-01	.1490-01	.9130	.4567-03	.6678-03	.9400-01	.5840	539.3
68	135.00	.40000	879.00	.1350-01	.1110-01	.1620-01	.9130	.4958-03	.7253-03	.1010	.6450	539.5
68	135.00	.50000	880.00	.9900-02	.8100-02	.1190-01	.9130	.3608-03	.5311-03	.7300-01	.5010	542.2
68	135.00	.55000	881.00	.3500-02	.2900-02	.4200-02	.9130	.1283-03	.1886-03	.2600-01	.1740	541.5
68	135.00	.60000	882.00	.7600-02	.6200-02	.9200-02	.9130	.2798-03	.4102-03	.5700-01	.3840	540.4
68	135.00	.65000	883.00	.1210-01	.9900-02	.1450-01	.9130	.4438-03	.6506-03	.9000-01	.6190	540 5
68	135.00	.70000	884.00	.1230-01	.1000-01	.1480-01	.9130	.4496-03	.6608-03	.9100-01	.6490	541.6
68	135.00	.75000	885.00	.1270-01	.1040-01	.1520-01	.9130	.4644-03	.6812-03	.9400-01	.5970	540.7
260	135.00	.80000	886.00	.9460-01	.5650-01	.1164	.9278	.3682-02	.6449-02	.4220	2.625	566.4
260	135.00	.84000	887.00	.7590-01	.5980-01	.9460-01	.9130	.2678-02	.4234-02	.0000	.0000	244.7
260	135.00	.85000	888.00	.2100-01	.1690-01	.2550-01	.9130	.7583-03	.1144-02	.1450	.9190	550.8
260	135.00	.87000	890.00	.2260-01	.1820-01	.2760-01	.9130	.8166-03	.1236-02	.1550	.9850	552.2
260	135.00	.88000	891.00	.2600-01	.2090-01	.3180-01	.9130	.9372-03	.1424-02	.1770	1.129	553.5
260	135.00	.89000	892.00	.2590-01	.2080-01	.3170-01	.9130	.9338-03	.1418-02	.1770	1.145	553.4
260	135.00	.91000	894.00	.1490-01	.1200-01	.1820-01	.9130	.5385-03	.8160-03	.1020	.7440	552.5
260	135.00	.92600	895.00	.2450-01	.1970-01	.3000-01	.9130	.8812-03	.1344-02	.1650	1.196	555.0
260	135.00	.95000	896.00	.3480-01	.2780-01	.4270-01	.9130	.1248-02	.1914-02	.2320	1.665	556.9
260	142.30	.42000	897.00	.1050-01	.8500-02	.1260-01	.9130	.3817-03	.5645-03	.7600-01	.4900	543.0
260	142.30	.43500	898.00	.9200-02	.7500-02	.1110-01	.9130	.3355-03	.4957-03	.6700-01	.4200	542.6
260	142.30	.45000	899.00	.9900-02	.8000-02	.1190-01	.9130	.3595-03	.5318-03	.7200-01	.4700	543.1
260	142.30	.50000	900.00	.7100-02	.5800-02	.8600-02	.9130	.2593-03	.3851-03	.5100-01	.3420	544.7
260	142.30	.60000	901.00	.8500-02	.6900-02	.1030-01	.9130	.3102-03	.4624-03	.6100-01	.4040	546.3
260	142.30	.70000	902.00	.1230-01	.9900-02	.1500-01	.9130	.4446-03	.6700-03	.8500-01	.5810	550.5
260	142.30	.80000	903.00	.1680-01	.1350-01	.2040-01	.9130	.6062-03	.9135-03	.1160	.7380	550.5
260	142.30	.87000	904.00	.2360-01	.1890-01	.2880-01	.9130	.8488-03	.1289-02	.1600	1.011	553.5
260	154.98	.42000	905.00	.7700-02	.6300-02	.9300-02	.9130	.2806-03	.4146-03	.5600-01	.3620	542.6
260	154.98	.43500	906.00	.7400-02	.6100-02	.8900-02	.9130	.2712-03	.4007-03	.5400-01	.3530	542.5
260	154.98	.45000	907.00	.2610-01	.2120-01	.3160-01	.9130	.9483-03	.1418-02	.1850	1.206	547.2
260	154.98	.50000	908.00	.2380-01	.1920-01	.2890-01	.9130	.8622-03	.1295-02	.1660	1.190	549.1
260	154.98	.93500	913.00	.2930-01	.2350-01	.3590-01	.9130	.1052-02	.1611-02	.1960	1.417	556.3
260	154.98	.94500	914.00	.3330-01	.2660-01	.4080-01	.9130	.1193-02	.1830-02	.2210	1.584	557.0
260	157.50	.70000-01	918.00	.2364	.1849	.2637	.9314	.8287-02	.1182-01	1.413	9.698	572.0
260	157.50	.80000-01	919.00	.2335	.1823	.2652	.9287	.8171-02	.1183-01	1.384	9.323	573.1
260	157.50	.10000+00	920.00	.1276	.1024	.1463	.9240	.4589-02	.6556-02	.8640	5.748	554.3
260	157.50	.20000	922.00	.1610-01	.1320-01	.1930-01	.9130	.5893-03	.8671-03	.1190	.7940	540.9
260	157.50	.42000	923.00	.2800-02	.2300-02	.3300-02	.9130	.1015-03	.1498-03	.2000-01	.1330	542.0
260	157.50	.43500	924.00	.2900-02	.2400-02	.3500-02	.9130	.1057-03	.1559-03	.2100-01	.1390	541.9
260	157.50	.45000	925.00	.2800-02	.2300-02	.3400-02	.9130	.1033-03	.1525-03	.2100-01	.1370	542.2
260	157.50	.85000	926.00	.1690-01	.1370-01	.2060-01	.9130	.6123-03	.9235-03	.1170	.7580	550.8
260	157.50	.86000	927.00	.1850-01	.1490-01	.2250-01	.9130	.6682-03	.1007-02	.1280	.8300	550.5

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
260	157.50	.89000	930.00	.2330-01	.1870-01	.2850-01	.9130	.8399-03	.1279-02	.1580	1.036	554.3
260	157.50	.90000	931.00	.1960-01	.1570-01	.2390-01	.9130	.7042-03	.1070-02	.1330	.8940	553.6
260	157.50	.91000	932.00	.1310-01	.1050-01	.1600-01	.9130	.4720-03	.7159-03	.9000-01	.6530	552.9
260	157.50	.92600	933.00	.2130-01	.1700-01	.2600-01	.9130	.7640-03	.1166-02	.1430	1.040	555.1
260	163.12	.41500	934.00	.2400-02	.2000-02	.2900-02	.9130	.8919-04	.1312-03	.1800-01	.1170	540.8
260	163.12	.42000	935.00	.3300-02	.2700-02	.4000-02	.9130	.1210-03	.1786-03	.2400-01	.1590	542.1
260	163.12	.43000	937.00	.3400-02	.2800-02	.4100-02	.9130	.1254-03	.1851-03	.2500-01	.1650	542.4
260	163.12	.44000	938.00	.3500-02	.2800-02	.4200-02	.9130	.1261-03	.1864-03	.2500-01	.1650	542.8
260	163.12	.44500	939.00	.4600-02	.3700-02	.5500-02	.9130	.1674-03	.2476-03	.3300-01	.2220	543.1
260	163.12	.45000	940.00	.3700-02	.3000-02	.4400-02	.9130	.1335-03	.1974-03	.2700-01	.1770	542.9
260	163.12	.50000	941.00	.5500-02	.4500-02	.6700-02	.9130	.2020-03	.2997-03	.4000-01	.2720	544.4
260	163.12	.60000	942.00	.1620-01	.1310-01	.1960-01	.9130	.5879-03	.8793-03	.1150	.7390	547.6
260	163.12	.70000	943.00	.1300-01	.1050-01	.1580-01	.9130	.4717-03	.7077-03	.9100-01	.6270	548.8
260	163.12	.80000	944.00	.1730-01	.1390-01	.2100-01	.9130	.6246-03	.9421-03	.1200	.7790	550.8
260	168.00	.35000	945.00	.2500-02	.2100-02	.3000-02	.9130	.9213-04	.1350-03	.1900-01	.1190	539.1
260	168.00	.36000	946.00	.2500-02	.2000-02	.2900-02	.9130	.9036-04	.1322-03	.1800-01	.1180	538.4
260	168.00	.37000	947.00	.3700-02	.3000-02	.4400-02	.9130	.1353-03	.1987-03	.2700-01	.1750	539.9
260	168.00	.37500	948.00	.3400-02	.2800-02	.4000-02	.9130	.1233-03	.1810-03	.2500-01	.1600	539.9
260	168.00	.38500	950.00	.3400-02	.2800-02	.4000-02	.9130	.1238-03	.1812-03	.2500-01	.1630	538.7
260	168.00	.39000	951.00	.4200-02	.3400-02	.5100-02	.9130	.1545-03	.2269-03	.3100-01	.2030	540.1
260	168.00	.39500	952.00	.3700-02	.3000-02	.4400-02	.9130	.1350-03	.1984-03	.2700-01	.1750	540.5
260	168.00	.40000	953.00	.4400-02	.3600-02	.5300-02	.9130	.1614-03	.2377-03	.3200-01	.2120	541.2
260	168.00	.40500	954.00	.4400-02	.3600-02	.5300-02	.9130	.1606-03	.2367-03	.3200-01	.2110	541.5
260	168.00	.41000	955.00	.4600-02	.3800-02	.5600-02	.9130	.1692-03	.2496-03	.3400-01	.2220	541.9
260	168.00	.41500	956.00	.5300-02	.4300-02	.6400-02	.9130	.1933-03	.2852-03	.3900-01	.2540	541.9
260	168.00	.42000	957.00	.5500-02	.4400-02	.6600-02	.9130	.1993-03	.2941-03	.4000-01	.2630	542.1
260	168.00	.42500	958.00	.3000-02	.2500-02	.3600-02	.9130	.1101-03	.1625-03	.2200-01	.1450	542.0
260	168.00	.43000	959.00	.5900-02	.4800-02	.7100-02	.9130	.2139-03	.3162-03	.4300-01	.2800	542.8
260	168.00	.44000	960.00	.6700-02	.5500-02	.8100-02	.9130	.2444-03	.3613-03	.4900-01	.3210	542.8
260	168.00	.44500	961.00	.5800-02	.4800-02	.7000-02	.9130	.2132-03	.3155-03	.4200-01	.2790	543.2
260	168.00	.45500	963.00	.5800-02	.4700-02	.6900-02	.9130	.2103-03	.3112-03	.4200-01	.2770	543.3
260	168.00	.46000	964.00	.5200-02	.4200-02	.6300-02	.9130	.1904-03	.2824-03	.3800-01	.2510	544.2
260	168.00	.47000	965.00	.5300-02	.4300-02	.6400-02	.9130	.1938-03	.2873-03	.3800-01	.2570	544.0
260	168.00	.48000	966.00	.5900-02	.4800-02	.7100-02	.9130	.2130-03	.3163-03	.4200-01	.2840	544.6
260	168.00	.49000	967.00	.1070-01	.8700-02	.1290-01	.9130	.3909-03	.5786-03	.7800-01	.5240	543.3
260	168.00	.85000	968.00	.2390-01	.1930-01	.2920-01	.9130	.8640-03	.1307-02	.1650	1.065	551.9
260	168.00	.86000	969.00	.2550-01	.2050-01	.3110-01	.9130	.9182-03	.1392-02	.1740	1.130	552.8
260	168.00	.87000	970.00	.2630-01	.2110-01	.3200-01	.9130	.9462-03	.1436-02	.1790	1.165	553.2
260	168.00	.88000	971.00	.2630-01	.2110-01	.3210-01	.9130	.9466-03	.1440-02	.1780	1.164	553.9
260	168.00	.89000	972.00	.2820-01	.2260-01	.3450-01	.9130	.1014-02	.1547-02	.1900	1.258	555.0
260	168.00	.90000	973.00	.2290-01	.1840-01	.2800-01	.9130	.8259-03	.1254-02	.1560	1.060	553.3
260	168.00	.91000	974.00	.1730-01	.1390-01	.2120-01	.9130	.6245-03	.9481-03	.1180	.8590	553.2
260	168.00	.92600	975.00	.2460-01	.1970-01	.3010-01	.9130	.8834-03	.1351-02	.1650	1.190	555.8

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F1B)

(IH41)(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
260	168.00	.95000	976.00	.3730-01	.2990-01	.4580-01	.9130	.1338-02	.2054-02	.2480	1.777	557.1
260	180.00	.20000-01	982.00	.4470-01	.3660-01	.4580-01	.9444	.1642-02	.2053-02	.3390	2.371	536.0
260	180.00	.25000-01	983.00	.5800-01	.4750-01	.6000-01	.9425	.2127-02	.2690-02	.4340	3.012	538.4
260	180.00	.30000-01	984.00	.1289	.1046	.1346	.9409	.4687-02	.6033-02	.9220	6.334	545.8
66	180.00	.40000-01	600.00	.2280	.1805	.2414	.9394	.8092-02	.1082-01	1.451	9.234	557.1
66	180.00	.50000-01	601.00	.2437	.1937	.2624	.9362	.8682-02	.1176-01	1.578	10.09	564.6
66	180.00	.60000-01	602.00	.2590	.2028	.2855	.9332	.9092-02	.1260-01	1.565	10.28	574.2
66	180.00	.70000-01	603.00	.2999	.2302	.3402	.9304	.1032-01	.1525-01	1.658	11.10	585.7
66	180.00	.80000-01	604.00	.2127	.1683	.2410	.9278	.7542-02	.1080-01	1.307	8.670	567.8
66	180.00	.10000+00	605.00	.1017	.8210-01	.1168	.9231	.3680-02	.5234-02	.7110	5.088	553.1
66	180.00	.15000	606.00	.4070-01	.3320-01	.4840-01	.9150	.1489-02	.2170-02	.3010	2.188	544.4
66	180.00	.20000	607.00	.1540-01	.1260-01	.1850-01	.9130	.5661-03	.8276-03	.1160	.7610	540.8
66	180.00	.21000	608.00	.1160-01	.9500-02	.1390-01	.9130	.4256-03	.6221-03	.8700-01	.6060	540.8
66	180.00	.22000	609.00	.8800-02	.7200-02	.1050-01	.9130	.3218-03	.4708-03	.6600-01	.4930	541.2
66	180.00	.35000	611.00	.2100-02	.1700-02	.2500-02	.9130	.7643-04	.1112-03	.1600-01	.1060	538.8
66	180.00	.36000	612.00	.2500-02	.2100-02	.3000-02	.9130	.9231-04	.1343-03	.1900-01	.1290	538.7
66	180.00	.37500	614.00	.1300-02	.1000-02	.1500-02	.9130	.4682-04	.6814-04	.1000-01	.6600-01	538.8
66	180.00	.38000	615.00	.3000-02	.2500-02	.3600-02	.9130	.1100-03	.1602-03	.2300-01	.1540	538.9
66	180.00	.38500	616.00	.2100-02	.1700-02	.2500-02	.9130	.7605-04	.1107-03	.1600-01	.1060	539.0
66	180.00	.39000	617.00	.3100-02	.2500-02	.3700-02	.9130	.1124-03	.1636-03	.2300-01	.1570	538.9
66	180.00	.39500	618.00	.3700-02	.3100-02	.4500-02	.9130	.1372-03	.1998-03	.2800-01	.1930	539.0
66	180.00	.40000	619.00	.4900-02	.4000-02	.5800-02	.9130	.1786-03	.2602-03	.3700-01	.2490	539.3
66	180.00	.40500	620.00	.3800-02	.3100-02	.4500-02	.9130	.1380-03	.2011-03	.2900-01	.1930	539.2
66	180.00	.41000	621.00	.4300-02	.3500-02	.5100-02	.9130	.1573-03	.2293-03	.3300-01	.2200	539.4
66	180.00	.41500	622.00	.5600-02	.4600-02	.6700-02	.9130	.2046-03	.2981-03	.4200-01	.2850	539.3
66	180.00	.42500	624.00	.6500-02	.5300-02	.7800-02	.9130	.2382-03	.3478-03	.4900-01	.3300	540.2
66	180.00	.43000	625.00	.7100-02	.5800-02	.8500-02	.9130	.2599-03	.3792-03	.5400-01	.3620	540.0
66	180.00	.44500	627.00	.4700-02	.3800-02	.5600-02	.9130	.1721-03	.2513-03	.3500-01	.2410	540.4
66	180.00	.45000	628.00	.4100-02	.3300-02	.4900-02	.9130	.1492-03	.2179-03	.3100-01	.2090	540.6
66	180.00	.45500	629.00	.3700-02	.3000-02	.4500-02	.9130	.1366-03	.1996-03	.2800-01	.1940	540.4
66	180.00	.46000	630.00	.2600-02	.2300-02	.3400-02	.9130	.1031-03	.1505-03	.2100-01	.1430	540.5
66	180.00	.47000	631.00	.6700-02	.5500-02	.8000-02	.9130	.2451-03	.3597-03	.5000-01	.3390	541.3
66	180.00	.49000	633.00	.8000-02	.6600-02	.9600-02	.9130	.2938-03	.4307-03	.6000-01	.4110	542.1
66	180.00	.50000	634.00	.7100-02	.5800-02	.8500-02	.9130	.2609-03	.3825-03	.5300-01	.3740	542.1
66	180.00	.55000	635.00	.1080-01	.8800-02	.1290-01	.9130	.3939-03	.5790-03	.8000-01	.5320	543.2
66	180.00	.60000	636.00	.2110-01	.1720-01	.2530-01	.9130	.7724-03	.1132-02	.1590	1.020	542.0
66	180.00	.65000	637.00	.2360-01	.1930-01	.2830-01	.9130	.8662-03	.1268-02	.1780	1.151	541.4
66	180.00	.70000	638.00	.2490-01	.2030-01	.2980-01	.9130	.9109-03	.1337-02	.1880	1.274	542.5
66	180.00	.75000	639.00	.2880-01	.2360-01	.3450-01	.9130	.1058-02	.1546-02	.2180	1.408	540.6
66	180.00	.80000	640.00	.3670-01	.3010-01	.4390-01	.9130	.1349-02	.1967-02	.2790	1.752	539.8
66	180.00	.85000	641.00	.3980-01	.3260-01	.4750-01	.9130	.1460-02	.2131-02	.3010	1.909	540.2
66	180.00	.86000	642.00	.3960-01	.3240-01	.4740-01	.9130	.1453-02	.2123-02	.2990	1.920	540.8
66	180.00	.87000	643.00	.4030-01	.3300-01	.4820-01	.9130	.1478-02	.2162-02	.3030	1.963	541.0

ORIGINAL PAGE IS
OF POOR QUALITY

(IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
66	180.00	.88000	644.00	.4060-01	.3320-01	.4860-01	.9130	.1490-02	.2178-02	.3060	1.999	540.8
66	180.00	.89000	645.00	.4020-01	.3290-01	.4820-01	.9130	.1475-02	.2100-02	.3020	1.992	541.7
66	180.00	.90000	646.00	.3300-01	.2700-01	.3940-01	.9130	.1210-02	.1768-02	.2490	1.681	540.4
66	180.00	.92600	648.00	.4100-01	.3350-01	.4900-01	.9130	.1504-02	.2197-02	.3090	2.262	540.7
66	180.00	.95000	649.00	.4330-01	.3530-01	.5190-01	.9130	.1583-02	.2328-02	.3210	2.325	543.4
66	191.25	.35000	650.00	.9000-02	.7400-02	.1070-01	.9130	.3301-03	.4804-03	.6800-01	.4620	538.9
66	191.25	.36000	651.00	.5000-02	.4100-02	.6000-02	.9130	.1833-03	.2669-03	.3800-01	.2570	539.0
66	191.25	.37000	652.00	.4000-02	.3300-02	.4800-02	.9130	.1467-03	.2135-03	.3000-01	.2050	539.0
66	191.25	.37500	653.00	.3600-02	.2900-02	.4300-02	.9130	.1316-03	.1917-03	.2700-01	.1850	539.1
66	191.25	.38000	654.00	.4700-02	.3800-02	.5600-02	.9130	.1717-03	.2499-03	.3500-01	.2410	538.9
66	191.25	.38500	655.00	.4400-02	.3600-02	.5200-02	.9130	.1608-03	.2341-03	.3300-01	.2260	539.0
66	191.25	.39000	656.00	.4500-02	.3700-02	.5400-02	.9130	.1659-03	.2415-03	.3400-01	.2330	539.0
66	191.25	.39500	657.00	.5400-02	.4400-02	.6500-02	.9130	.1987-03	.2895-03	.4100-01	.2780	539.5
66	191.25	.40000	658.00	.7100-02	.5800-02	.8600-02	.9130	.2611-03	.3805-03	.5400-01	.3670	539.4
66	191.25	.40500	659.00	.1040-01	.8500-02	.1240-01	.9130	.3817-03	.5565-03	.7800-01	.5350	539.6
66	191.25	.41000	660.00	.6600-02	.5400-02	.7800-02	.9130	.2399-03	.3493-03	.5000-01	.3370	539.1
66	191.25	.41500	661.00	.8300-02	.6800-02	.1000-01	.9130	.3068-03	.4470-03	.6400-01	.4290	539.2
66	191.25	.42000	662.00	.8300-02	.6800-02	.9900-02	.9130	.3052-03	.4451-03	.6350-01	.4260	539.8
66	191.25	.42500	663.00	.8300-02	.6800-02	.9900-02	.9130	.3037-03	.4427-03	.6300-01	.4260	539.5
66	191.25	.43000	664.00	.8900-02	.7300-02	.1060-01	.9130	.3270-03	.4769-03	.6800-01	.4620	539.8
66	191.25	.44000	665.00	.9300-02	.7600-02	.1110-01	.9130	.3414-03	.4983-03	.7000-01	.4790	540.1
66	191.25	.45000	666.00	.6000-02	.4900-02	.7200-02	.9130	.2196-03	.3211-03	.4500-01	.3070	540.9
66	191.25	.45500	667.00	.9700-02	.7900-02	.1150-01	.9130	.3542-03	.5173-03	.7300-01	.4960	540.4
66	191.25	.46000	668.00	.1090-01	.9000-02	.1310-01	.9130	.4016-03	.5865-03	.8300-01	.5650	540.4
66	191.25	.47000	669.00	.1160-01	.9500-02	.1390-01	.9130	.4257-03	.6217-03	.8800-01	.6000	540.4
66	191.25	.48000	671.00	.1070-01	.8700-02	.1280-01	.9130	.3914-03	.5716-03	.8000-01	.5460	541.9
66	191.25	.50000	672.00	.1190-01	.9700-02	.1430-01	.9130	.4367-03	.6376-03	.8900-01	.6230	541.6
66	191.25	.60000	673.00	.1550-01	.1270-01	.1860-01	.9130	.5701-03	.8323-03	.1170	.7980	540.3
66	191.25	.70000	674.00	.1980-01	.1620-01	.2370-01	.9130	.7242-03	.1060-02	.1460	1.012	541.5
66	191.25	.85000	676.00	.2710-01	.2220-01	.3240-01	.9130	.9358-03	.1450-02	.2050	1.389	539.1
66	191.25	.86000	677.00	.2660-01	.2180-01	.3190-01	.9130	.1000-02	.1508-02	.2050	1.441	539.3
66	191.25	.87000	678.00	.2740-01	.2240-01	.3280-01	.9130	.1004-02	.1527-02	.2080	1.465	540.2
66	191.25	.94000	679.00	.2760-01	.2260-01	.3310-01	.9130	.1024-02	.1557-02	.2120	1.493	541.1
66	191.25	.89000	680.00	.2810-01	.2300-01	.3370-01	.9130	.1044-02	.1588-02	.2160	1.519	541.5
66	191.25	.91000	681.00	.2760-01	.2260-01	.3310-01	.9130	.1013-02	.1542-02	.2090	1.486	541.2
66	191.25	.91000	682.00	.1600-01	.1310-01	.1920-01	.9130	.5881-03	.8955-03	.1220	.8590	539.1
66	191.25	.92600	683.00	.2656-01	.2030-01	.3060-01	.9130	.9391-03	.1373-02	.1880	1.411	541.4
66	191.25	.95000	684.00	.3300-01	.2700-01	.4010-01	.9130	.1435-02	.2110-02	.2910	2.109	543.3
66	197.00	.33000	686.00	.4600-02	.3800-02	.5500-02	.9130	.1888-03	.2757-03	.3800-01	.2650	539.8
66	197.00	.34000	687.00	.4900-02	.4000-02	.5900-02	.9130	.2043-03	.2917-03	.4000-01	.2760	539.1
66	197.00	.35000	688.00	.4700-02	.3900-02	.5600-02	.9130	.1927-03	.2813-03	.3900-01	.2700	538.2
66	197.00	.35500	689.00	.3900-02	.3200-02	.4700-02	.9130	.1628-03	.2378-03	.3300-01	.2290	538.3
66	197.00	.36000	690.00	.3900-02	.3200-02	.4700-02	.9130	.1628-03	.2378-03	.3300-01	.2290	538.3
66	197.00	.37000	693.00	.3800-02	.3100-02	.4600-02	.9130	.1586-03	.2317-03	.3200-01	.2230	538.3

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F18)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	'I(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
66	197.00	.37500	690.00	.6800-02	.5500-02	.8100-02	.9130	.2482-03	.3612-03	.5200-01	.3490	538.7
66	197.00	.50000	691.00	.5800-02	.4800-02	.7000-02	.9130	.2143-03	.3134-03	.4400-01	.2970	541.0
66	197.00	.60000	692.00	.1930-01	.1580-01	.2310-01	.9130	.7080-03	.1033-02	.1460	.9450	540.1
66	197.00	.70000	693.00	.2290-01	.1880-01	.2730-01	.9130	.8411-03	.1226-02	.1740	1.185	539.4
66	197.00	.80000	694.00	.2750-01	.2260-01	.3270-01	.9130	.1011-02	.1467-02	.2110	1.334	537.3
66	197.00	.87000	695.00	.3450-01	.2820-01	.4120-01	.9130	.1266-02	.1848-02	.2610	1.671	540.1
66	197.00	.92600	696.00	.2800-01	.2290-01	.3350-01	.9130	.1027-02	.1502-02	.2110	1.546	541.2
260	209.80	.15000-01	697.00	.2561	.1852	.3071	.9283	.1024-01	.1698-01	.0000	.0000	539.9
67	209.80	.30000-01	698.00	.2243	.1790	.2329	.9427	.8018-02	.1044-01	1.478	9.928	560.4
67	209.80	.50000-01	699.00	.2758	.2187	.2942	.9380	.9795-02	.1318-01	1.761	11.09	565.0
67	209.80	.70000-01	700.00	.3041	.2330	.3416	.9320	.1044-01	.1530-01	1.663	11.03	585.5
67	209.80	.10000+00	701.00	.1272	.1021	.1454	.9245	.4574-02	.6515-02	.8640	5.480	556.0
67	209.80	.15000	702.00	.4950-01	.4020-01	.5870-01	.9158	.1800-02	.2631-02	.3570	2.556	546.3
67	209.80	.20000	703.00	.1770-01	.1450-01	.2120-01	.9130	.6486-03	.9502-03	.1320	.8850	540.6
67	209.80	.30000	704.00	.4700-02	.3900-02	.5700-02	.9130	.1735-03	.2539-03	.3600-01	.2520	540.1
67	209.80	.35000	705.00	.4100-02	.3400-02	.4900-02	.9130	.1505-03	.2195-03	.3100-01	.2130	538.5
67	209.80	.37500	706.00	.2600-02	.2100-02	.3100-02	.9130	.9470-04	.1379-03	.2000-01	.1350	537.9
67	209.80	.50000	707.00	.6900-02	.5600-02	.8200-02	.9130	.2515-03	.3685-03	.5100-01	.3520	540.8
67	209.80	.60000	708.00	.2250-01	.1850-01	.2690-01	.9130	.8283-03	.1204-02	.1720	1.101	537.2
67	209.80	.70000	709.00	.1720-01	.1410-01	.2060-01	.9130	.6310-03	.9230-03	.1290	.8270	539.9
67	209.80	.80000	710.00	.2350-01	.1930-01	.2810-01	.9130	.8644-03	.1259-02	.1790	1.118	538.1
67	209.80	.87000	711.00	.2870-01	.2350-01	.3440-01	.9130	.1052-02	.1540-02	.2150	1.365	540.2
67	209.80	.92600	712.00	.2390-01	.1950-01	.2870 01	.9130	.8744-03	.1286-02	.1770	1.291	542.2
67	217.70	.30000-01	714.00	.2369	.1878	.2449	.9438	.8412-02	.1097-01	1.511	10.18	565.2
67	217.70	.50000-01	715.00	.2948	.2329	.3130	.9391	.1043-01	.1402-01	1.850	11.94	567.4
67	217.70	.70000-01	716.00	.2987	.2273	.3344	.9330	.1018-01	.1498-01	1.585	10.59	589.1
67	217.70	.10000+00	717.00	.1226	.9850-01	.1394	.9254	.4412-02	.6245-02	.8360	5.398	555.3
67	217.70	.15000	718.00	.5260-01	.4270-01	.6230-01	.9164	.1914-02	.2791-02	.3800	2.779	546.4
67	217.70	.20000	719.00	.1960-01	.1610-01	.2350-01	.9130	.7201-03	.1051-02	.1480	1.002	539.1
67	217.70	.30000	720.00	.6300-02	.5200-02	.7600-02	.9130	.2313-03	.3385-03	.4700-01	.3400	540.2
67	217.70	.35000	721.00	.6400-02	.5300-02	.7700-02	.9130	.2354-03	.3431-03	.4900-01	.3380	538.4
67	217.70	.37500	722.00	.6400-02	.5200-02	.7600-02	.9130	.2344-03	.3417-03	.4800-01	.3370	538.4
67	217.70	.50000	723.00	.8400-02	.6800-02	.1000-01	.9130	.3065-03	.4490-03	.6300-01	.4340	540.5
67	217.70	.60000	724.00	.1200-01	.9900-02	.1440-01	.9130	.4419-03	.6440-03	.9100-01	.5860	538.3
67	217.70	.70000	725.00	.1640-01	.1340-01	.1960-01	.9130	.6002-03	.8783-03	.1230	.7830	540.1
67	217.70	.80000	726.00	.2280-01	.1870-01	.2720-01	.9130	.8358-03	.1217-02	.1730	1.091	538.0
67	217.70	.87000	727.00	.3120-01	.2560-01	.3740-01	.9130	.1146-02	.1675-02	.2350	1.506	539.8
67	217.70	.92600	728.00	.2320-01	.1890-01	.2780-01	.9130	.8487-03	.1246-02	.1720	1.256	541.7

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F19)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = 10.00 BETA = -3.000 GRIT = 3.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
313	2.500	4.828	10.05	2.900	-16.00	32.00	1.872	662.0	294.1	8.191	2101.	.5341-03
314	2.500	4.824	10.02	2.900	-16.00	32.00	1.872	662.0	294.2	8.188	2101.	.5337-03
315	2.500	4.828	10.04	2.900	-16.00	32.00	1.873	662.0	294.2	8.193	2101.	.5341-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
313	.2324-06	.6255-01	.6981-02
314	.2325-06	.6254-01	.6984-02
315	.2324-06	.6255-01	.6981-02

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
314	.00000	.30000-02	730.00	.6187	.3485	.3932	.9870	.2180-01	.2459-01	1.652	11.12	586.2
314	.00000	.10300-01	731.00	.5166	.3144	.5527	.9449	.1966-01	.3456-01	1.663	11.28	577.4
314	.00000	.15000-01	732.00	.6325	.3628	.6841	.9449	.2269-01	.4278-01	1.762	11.76	584.3
314	.00000	.20000-01	733.00	.9173	.4231	.4920	.9870	.2646-01	.3077-01	1.625	10.87	600.5
314	.00000	.25000-01	734.00	2.001	.5578	.6866	.9870	.3489-01	.4294-01	1.601	10.52	616.1
314	.00000	.30000-01	735.00	1.276	.5275	.6224	.9870	.3299-01	.3893-01	1.861	12.37	605.6
314	.00000	.40000-01	737.00	.7715	.4269	.4830	.9870	.2670-01	.3021-01	1.979	12.65	587.9
314	.00000	.45000-01	738.00	.8293	.4438	.5047	.9870	.2775-01	.3156-01	1.979	12.82	590.7
314	.00000	.60000-01	739.00	.8266	.3781	.4517	.9850	.2364-01	.2825-01	1.442	9.435	601.0
314	.00000	.70000-01	740.00	.8106	.3871	.4806	.9814	.2421-01	.3006-01	1.534	10.11	598.6
314	.00000	.80000-01	741.00	.6765	.3353	.4313	.9779	.2097-01	.2697-01	1.376	9.759	596.4
314	.00000	.10000+00	742.00	.5593	.3098	.4155	.9715	.1938-01	.2593-01	1.438	9.412	597.8
314	.00000	.12500	743.00	.4346	.2208	.3400	.9644	.1381-01	.2127-01	.9290	6.593	594.7
314	.00000	.15000	744.00	.3330	.2165	.3464	.9582	.1354-01	.2167-01	.9980	6.796	589.3
314	.00000	.17500	745.00	.2905	1700	.2779	.9532	.1063-01	.1738-01	.8490	6.266	582.2
314	.00000	.20000	746.00	.2399	.1500	.2423	.9492	.9383-02	.1515-01	.8290	5.851	573.6
314	.00000	.21500	747.00	.2160	.1363	.2230	.9473	.8527-02	.1395-01	.7660	5.238	572.2
314	.00000	.23000	748.00	.1562	.9860-01	.1643	.9457	.6168-02	.1028-01	.5540	4.043	572.2

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F19)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
314	.00000	.24000	749.00	.1875	.1195	.1989	.9449	.7471-02	.1244-01	.6820	5.079	570.7
314	.00000	.25000	750.00	.1027	.6740-01	.1085	.9449	.4217-02	.6783-02	.4060	3.257	565.6
314	.00000	.30000	751.00	.1712	.1122	.1809	.9449	.7014-02	.1131-01	.6730	4.373	566.0
314	.00000	.40000	753.00	.1783	.1177	.1882	.9449	.7363-02	.1177-01	.7170	4.570	564.6
314	.00000	.50000	754.00	.1553	.1002	.1644	.9449	.6266-02	.1028-01	.5850	3.785	568.6
314	.00000	.60000	755.00	.1723	.1120	.1822	.9449	.7002-02	.1140-01	.6620	4.201	567.4
314	.00000	.70000	756.00	.1592	1008	.1691	.9449	.6304-02	.1058-01	.5690	3.709	571.7
314	.00000	.80000	757.00	.1504	.9480-01	.1599	.9449	.5931-02	.9997-02	.5320	3.290	572.3
314	.00000	.90000	758.00	.1053	.6590-01	.1121	.9449	.4122-02	.7009-02	.3650	2.329	573.5
314	55.000	.22000	759.00	.1829	.1184	.1920	.9456	.7404-02	.1201-01	.6950	5.117	568.1
314	55.000	.25000	760.00	.1105	.7350-01	.1173	.9442	.4597-02	.7336-02	.4550	3.534	563.0
314	55.000	.27000	761.00	.1261	.8170-01	.1345	.9442	.5112-02	.8414-02	.4810	3.544	567.8
314	55.000	.30000	762.00	.1581	.1057	.1678	.9442	.6610-02	.1049-01	.6600	3.939	562.1
314	55.000	.32000	763.00	.1613	.1086	.1710	.9442	.6792-02	.1069-01	.6830	4.041	560.7
314	55.000	.34000	764.00	.1620	.1089	.1718	.9442	.6810-02	.1074-01	.6870	4.048	561.0
314	55.000	.36000	765.00	.1631	.1099	.1728	.9442	.6874-02	.1081-01	.6980	4.167	560.5
314	55.000	.38000	766.00	.1515	.1020	.1605	.9442	.6380-02	.1004-01	.6470	3.906	560.6
314	55.000	.40000	767.00	.1468	.9880-01	.1556	.9442	.6177-02	.9729-02	.6250	3.878	560.8
314	67.500	.23000	768.00	.1633	.1070	.1738	.9442	.6694-02	.1087-01	.6430	4.740	565.9
314	67.500	.25000	769.00	.1064	.7130-01	.1134	.9437	.4457-02	.7095-02	.4460	3.447	561.8
314	67.500	.27000	770.00	.1242	.8090-01	.1331	.9437	.5060-02	.8323-02	.4810	3.471	567.0
314	67.500	.29000	771.00	.1087	.7340-01	.1156	.9437	.4591-02	.7230-02	.4680	2.884	559.9
314	67.500	.30000	772.00	.1409	.9440-01	.1502	.9437	.5902-02	.9391-02	.5920	3.589	561.7
314	67.500	.31000	773.00	.1473	.9870-01	.1569	.9437	.6173-02	.9814-02	.6200	3.728	561.6
314	67.500	.32000	774.00	.1422	.9570-01	.1514	.9437	.5983-02	.9469-02	.6050	3.614	560.8
314	67.500	.32500	775.00	.1440	.9720-01	.1532	.9437	.6079-02	.9583-02	.6190	3.708	560.1
314	67.500	.33000	776.00	.1443	.9730-01	.1536	.9437	.6082-02	.9603-02	.6180	3.710	560.4
314	67.500	.33500	777.00	.1421	.9600-01	.1512	.9437	.6003-02	.9454-02	.6120	3.678	559.9
314	67.500	.34000	778.00	.1395	.9440-01	.1484	.9437	.5901-02	.9278-02	.6040	3.628	559.3
314	67.500	.34500	779.00	.1385	.9370-01	.1474	.9437	.5863-02	.9216-02	.6000	3.615	559.6
314	67.500	.35000	780.00	.1403	.9510-01	.1492	.9437	.5949-02	.9328-02	.6120	3.695	559.2
314	67.500	.36000	782.00	.1384	.9370-01	.1471	.9437	.5862-02	.9200-02	.6020	3.645	559.3
314	67.500	.36500	783.00	.1353	.9200-01	.1438	.9437	.5753-02	.8991-02	.5950	3.594	558.6
314	67.500	.37000	784.00	.1336	.9110-01	.1419	.9437	.5695-02	.8876-02	.5920	3.596	558.1
314	67.500	.37500	785.00	.1260	.8560-01	.1340	.9437	.5351-02	.8377-02	.5520	3.379	558.9
314	67.500	.38000	786.00	.1341	.9110-01	.1425	.9437	.5699-02	.8910-02	.5890	3.617	558.6
314	67.500	.39000	787.00	.1380	9340-01	.1468	.9437	.5842-02	.9183-02	.5980	3.682	559.6
314	67.500	.40000	788.00	.1315	.8880-01	.1399	.9437	.5551-02	.8752-02	.5650	3.508	560.2
314	67.500	.50000	789.00	.1465	.9720-01	.1565	.9437	.6079-02	.9785-02	.5980	3.800	563.7
314	67.500	.60000	790.00	.1421	.9450-01	.1517	.9437	.5911-02	.9488-02	.5840	3.802	563.2
314	67.500	.70000	791.00	.1288	.8410-01	.1380	.9437	.5257-02	.8631-02	.5010	3.503	566.7
314	67.500	.80000	792.00	.1259	.8330-01	.1345	.9437	.5212-02	.8411-02	.5100	3.179	564.1
314	67.500	.90000	793.00	.8470-01	.5530-01	.9080-01	.9437	.3456-02	.5679-02	.3290	2.099	566.8

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F19)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
314	78.000	.27000	794.00	.1131	.7430-01	.1215	.9434	.4644-02	.7596-02	.4480	3.164	565.5
314	78.000	.29000	795.00	.9930-01	.6770-01	.1058	.9434	.4232-02	.6620-02	.4400	2.695	558.1
315	78.000	.30000	796.00	.1239	.8130-01	.1331	.9434	.5089-02	.8323-02	.4910	2.947	565.4
315	78.000	.31000	797.00	.1272	.8370-01	.1365	.9434	.5236-02	.8542-02	.5070	3.046	565.0
315	78.000	.32000	798.00	.1311	.8640-01	.1407	.9434	.5402-02	.8803-02	.5240	3.131	564.8
315	78.000	.32500	799.00	.1310	.8680-01	.1404	.9434	.5427-02	.8784-02	.5320	3.189	563.8
315	78.000	.33000	800.00	.1294	.8540-01	.1389	.9434	.5342-02	.8691-02	.5190	3.113	564.6
315	78.000	.33500	801.00	.1322	.8770-01	.1417	.9434	.5488-02	.8864-02	.5400	3.236	563.5
315	78.000	.34000	802.00	.1261	.8380-01	.1352	.9434	.5239-02	.8457-02	.5160	3.093	563.4
315	78.000	.34500	803.00	.1258	.8380-01	.1348	.9434	.5240-02	.8430-02	.5190	3.121	562.8
315	78.000	.35000	804.00	.1232	.8190-01	.1320	.9434	.5122-02	.8255-02	.5060	3.040	563.1
315	78.000	.35500	805.00	.1252	.8350-01	.1340	.9434	.5224-02	.8384-02	.5190	3.123	562.5
315	78.000	.36000	806.00	.1148	.7670-01	.1229	.9434	.4799-02	.7686-02	.4790	2.887	562.1
315	78.000	.36500	807.00	.1208	.8060-01	.1294	.9434	.5041-02	.8093-02	.5010	3.029	562.5
315	78.000	.37000	808.00	.1223	.8160-01	.1310	.9434	.5102-02	.8193-02	.5070	3.072	562.6
315	78.000	.37500	809.00	.1249	.8320-01	.1337	.9434	.5207-02	.8364-02	.5170	3.134	562.6
315	78.000	.38000	810.00	.1246	.8320-01	.1334	.9434	.5207-02	.8343-02	.5190	3.167	562.1
315	78.000	.39000	811.00	.1260	.8370-01	.1351	.9434	.5236-02	.8450-02	.5160	3.152	563.3
315	78.000	.40000	812.00	.9320-01	.6380-01	.9930-01	.9434	.3990-02	.6210-02	.4180	2.565	557.0
315	90.000	.20000	813.00	.2410-01	.1700-01	.2560-01	.9433	.1065-02	.1600-02	.1200	.8680	549.6
315	90.000	.24000	814.00	.1124	.7270-01	.1215	.9431	.4549-02	.7598-02	.4270	3.417	568.0
315	90.000	.27000	816.00	.1021	.6630-01	.1103	.9431	.4150-02	.6897-02	.3920	2.760	567.3
315	90.000	.29000	817.00	.9050-01	.6030-01	.9720-01	.9431	.3769-0	.6083-02	.3730	2.300	562.9
315	90.000	.30000	818.00	.1199	.7870-01	.1292	.9431	.4924-	.8083-02	.4740	2.872	565.5
315	90.000	.31000	819.00	.1247	.8260-01	.1341	.9431	.5164-02	.8389-02	.5060	3.039	563.9
315	90.000	.32000	820.00	.1220	.8150-01	.1310	.9431	.5097-02	.8194-02	.5080	3.046	562.2
315	90.000	.32500	821.00	.1230	.8200-01	.1321	.9431	.5131-02	.8266-02	.5090	3.047	562.6
315	90.000	.33000	822.00	.1163	.7810-01	.1247	.9431	.4884-02	.7801-02	.4920	2.951	561.2
315	90.000	.34000	824.00	.1191	.8010-01	.1276	.9431	.5011-02	.7985-02	.5070	3.033	560.8
315	90.000	.34500	825.00	.1133	.7650-01	.1213	.9431	.4788-02	.7585-02	.4890	2.935	559.8
315	90.000	.35000	826.00	.1183	.7940-01	.1268	.9431	.4966-02	.7933-02	.5000	3.001	561.2
315	90.000	.36000	828.00	.1162	.7790-01	.1247	.9431	.4872-02	.7800-02	.4890	2.924	561.6
315	90.000	.36500	829.00	.1142	.7670-01	.1225	.9431	.4736-02	.7664-02	.4820	2.896	561.3
315	90.000	.37000	830.00	.1135	.7670-01	.1215	.9431	.4795-02	.7603-02	.4900	2.949	559.8
315	90.000	.37500	831.00	.1151	.7750-01	.1233	.9431	.4849-02	.7712-02	.4920	2.976	560.5
315	90.000	.38000	832.00	.1149	.7750-01	.1231	.9431	.4849-02	.7701-02	.4930	2.985	560.2
315	90.000	.39000	833.00	.1157	.7780-01	.1240	.9431	.4869-02	.7759-02	.4920	3.012	560.8
315	90.000	.40000	834.00	.1153	.7750-01	.1235	.9431	.4848-02	.7728-02	.4900	3.005	560.8
315	90.000	.50000	835.00	.1071	.7040-01	.1153	.9431	.4404-02	.7214-02	.4260	2.666	565.2
315	90.000	.60000	836.00	.1017	.6780-01	.1092	.9431	.4241-02	.6829-02	.4210	2.784	562.5
315	90.000	.70000	837.00	.9330-01	.6130-01	.1006	.9431	.3832-02	.6290-02	.3690	2.574	565.5
315	90.000	.80000	838.00	.9070-01	.6070-01	.9740-01	.9431	.3796-02	.6090-02	.3790	2.340	561.9
315	90.000	.90000	839.00	.5840-01	.3870-01	.6280-01	.9431	.2419-02	.3931-02	.2370	1.500	564.0

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F19)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
315	112.50	.23000	840.00	.9120-01	.6050-01	.9810-01	.9430	.3784-02	.6139-02	.3720	2.975	563.5
315	112.50	.25000	841.00	.5790-01	.3910-01	.6210-01	.9430	.2446-02	.3886-02	.2490	1.918	560.1
315	112.50	.30000	843.00	.7570-01	.5100-01	.8130-01	.9430	.3191-02	.5083-02	.3230	1.911	560.5
315	112.50	.33000	844.00	.9810-01	.6650-01	.1050	.9430	.4161-02	.6571-02	.4280	2.565	559.0
315	112.50	.35000	845.00	.9540-01	.6510-01	.1021	.9430	.4071-02	.6385-02	.4240	2.582	557.8
315	112.50	.37000	846.00	.9470-01	.6450-01	.1014	.9430	.4035-02	.6342-02	.4180	2.564	558.2
315	112.50	.40000	847.00	.8530-01	.5850-01	.9110-01	.9430	.3662-02	.5697-02	.3870	2.399	556.2
315	112.50	.45000	848.00	.8560-01	.5880-01	.9150-01	.9430	.3678-02	.5722-02	.3890	2.430	556.2
315	112.50	.50000	849.00	.7820-01	.5290-01	.8380-01	.9430	.3306-02	.5242-02	.3380	2.158	559.7
315	112.50	.55000	850.00	.5620-01	.3830-01	.6010-01	.9430	.2394-02	.3760-02	.2490	1.651	558.0
315	112.50	.60000	851.00	.7180-01	.4910-01	.7680-01	.9430	.3068-02	.4807-02	.3200	2.133	557.5
315	112.50	.65000	852.00	.7300-01	.4980-01	.7820-01	.9430	.3113-02	.4889-02	.3230	2.187	558.0
315	112.50	.70000	853.00	.6160-01	.4160-01	.6610-01	.9430	.2603-02	.4132-02	.2650	1.849	559.9
315	112.50	.75000	854.00	.4310-01	.2930-01	.4610-01	.9430	.1833-02	.2885-02	.1900	1.224	558.3
315	112.50	.80000	855.00	.6030-01	.4120-01	.6450-01	.9470	.2575-02	.4037-02	.2680	1.736	557.7
315	112.50	.90000	856.00	.4810-01	.3240-01	.5170-01	.9430	.2025-02	.3232-02	.2050	1.318	560.8
315	125.40	.84000	857.00	.4190-01	.2880-01	.4470-01	.9430	.1801-02	.2799-02	.1900	1.171	556.1
315	125.40	.85000	858.00	.3870-01	.2650-01	.4140-01	.9430	.1658-02	.2590-02	.1740	1.074	557.1
315	125.40	.86000	859.00	.3990-01	.2720-01	.4270-01	.9430	.1704-02	.2671-02	.1770	1.106	557.7
315	125.40	.87000	860.00	.3750-01	.2560-01	.4020-01	.9430	.1603-02	.2512-02	.1670	1.043	557.7
315	125.40	.88000	861.00	.3800-01	.2570-01	.4080-01	.9430	.1606-02	.2549-02	.1640	1.021	559.9
315	125.40	.89000	862.00	.3530-01	.2380-01	.3790-01	.9430	.1492-02	.2368-02	.1520	.9550	559.9
315	125.40	.90000	863.00	.2560-01	.1730-01	.2750-01	.9430	.1082-02	.1719-02	.1100	.6960	560.0
315	125.40	.91000	864.00	.7700-02	.5300-02	.8200-02	.9430	.3302-03	.5151-03	.3500-01	.2510	556.8
315	125.40	.92500	865.00	.1580-01	.1050-01	.1700-01	.9430	.6547-03	.1062-02	.6400-01	.4630	563.4
315	129.30	.80000	866.00	.3640-01	.2510-01	.3880-01	.9430	.1568-02	.2428-02	.1670	1.044	555.4
315	129.30	.81000	867.00	.3720-01	.2560-01	.3980-01	.9430	.1604-02	.2487-02	.1700	1.060	555.6
315	129.30	.82000	868.00	.3570-01	.2460-01	.3810-01	.9430	.1537-02	.2385-02	.1630	1.014	555.8
315	129.30	.83000	869.00	.3650-01	.2510-01	.3900-01	.9430	.1573-02	.2441-02	.1670	1.041	555.8
315	135.00	.40000-01	870.00	.4718	.2779	.3848	.9662	.1739-01	.2407-01	1.400	8.850	581.3
315	135.00	.50000-01	871.00	.5368	.3112	.4508	.9632	.1947-01	.2820-01	1.533	9.623	583.1
315	135.00	.60000-01	872.00	.4700	.2509	.3979	.9604	.1569-01	.2489-01	1.114	7.236	590.9
315	135.00	.70000-01	873.00	.4529	.2383	.3971	.9578	.1490-01	.2484-01	1.041	6.922	592.0
315	135.00	.10000+00	875.00	.3136	.1900	.3076	.9515	.1188-01	.1924-01	.9980	6.445	577.9
315	135.00	.15000	876.00	.1885	.1160	.2007	.9451	.7259-02	.1255-01	.6250	4.507	575.8
315	135.00	.20000	877.00	.1171	.7720-01	.1262	.9430	.4832-02	.7892-02	.4700	3.138	564.6
315	135.00	.35000	878.00	.7970-01	.5470-01	.8510-01	.9430	.3422-02	.5326-02	.3610	2.233	556.3
315	135.00	.40000	879.00	.7280-01	.5000-01	.7770-01	.9430	.3126-02	.4862-02	.3300	2.083	556.2
315	135.00	.50000	880.00	.5900-01	.4040-01	.6310-01	.9430	.2524-02	.3949-02	.2640	1.803	557.3
315	135.00	.55000	881.00	.4480-01	.3090-01	.4780-01	.9430	.1934-02	.2991-02	.2070	1.370	555.1
315	135.00	.60000	882.00	.6390-01	.4380-01	.6820-01	.9430	.2743-02	.4267-02	.2900	1.937	556.3
315	135.00	.65000	883.00	.6740-01	.4650-01	.7200-01	.9430	.2907-02	.4501-02	.3100	2.105	555.3
315	135.00	.70000	884.00	.5230-01	.3570-01	.5590-01	.9430	.2232-02	.3498-02	.2330	1.644	557.6

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F19)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
315	135.00	.75000	885.00	.2830-01	.1950-01	.3020-01	.9430	.1217-02	.1888-02	.1290	.8110	555.6
315	135.00	.80000	886.00	.4230-01	.2930-01	.4510-01	.9430	.1836-02	.2818-02	.1990	1.244	553.7
315	135.00	.84000	887.00	.7590-01	.5980-01	.9460-01	.9130	.2678-02	.4234-02	.0000	.0000	244.7
313	180.00	.40000-01	600.00	.2819	.1746	.2515	.9599	.1092-01	.1573-01	.9490	6.018	574.8
313	180.00	.50000-01	601.00	.3051	.1857	.2793	.9572	.1162-01	.1747-01	.9820	6.239	577.2
313	180.00	.60000-01	602.00	.2968	.1718	.2775	.9548	.1075-01	.1736-01	.8450	5.524	583.2
313	180.00	.70000-01	603.00	.3497	.1874	.3345	.9526	.1172-01	.2092-01	.8360	5.581	590.4
313	180.00	.80000-01	604.00	.3056	.1739	.3022	.9507	.1088-01	.1890-01	.8350	5.328	585.0
313	180.00	.10000+00	605.00	.1997	.1232	.2056	.9477	.7707-02	.1286-01	.6660	4.711	575.3
313	180.00	.15000	606.00	.1273	.7880-01	.1383	.9435	.4928-02	.8647-02	.4280	3.068	574.9
313	180.00	.20000	607.00	.9120-01	.5980-01	.9840-01	.9430	.3741-02	.6157-02	.3600	2.323	565.6
313	180.00	.21000	608.00	.8050-01	.5320-01	.8670-01	.9430	.3325-02	.5423-02	.3240	2.221	564.2
313	180.00	.22000	609.00	.6950-01	.4600-01	.7490-01	.9430	.2878-02	.4685-02	.2810	2.076	564.0
313	180.00	.30000	610.00	.5510-01	.3700-01	.5920-01	.9430	.2317-02	.3701-02	.2340	1.588	560.9
313	180.00	.35000	611.00	.6550-01	.4440-01	.7020-01	.9430	.2774-02	.4390-02	.2840	1.882	559.3
313	180.00	.36000	612.00	.5950-01	.4020-01	.6370-01	.9430	.2512-02	.3987-02	.2560	1.711	559.7
313	180.00	.37500	614.00	.6280-01	.4230-01	.6730-01	.9430	.2646-02	.4210-02	.2690	1.793	560.2
313	180.00	.38000	615.00	.6270-01	.4240-01	.6720-01	.9430	.2650-02	.4206-02	.2700	1.804	559.8
313	180.00	.38500	616.00	.6270-01	.4240-01	.6730-01	.9430	.2651-02	.4208-02	.2700	1.805	559.8
313	180.00	.39000	617.00	.6180-01	.4200-01	.6620-01	.9430	.2629-02	.4140-02	.2720	1.811	558.4
313	180.00	.39500	618.00	.5960-01	.4040-01	.6380-01	.9430	.2525-02	.3993-02	.2590	1.736	559.1
313	180.00	.40000	619.00	.5930-01	.4010-01	.6350-01	.9430	.2510-02	.3971-02	.2570	1.714	559.2
313	180.00	.40500	620.00	.6060-01	.4100-01	.6490-01	.9430	.2563-02	.4060-02	.2620	1.752	559.4
313	180.00	.41000	621.00	.5970-01	.4030-01	.6400-01	.9430	.2521-02	.4000-02	.2570	1.718	559.7
313	180.00	.41500	622.00	.5830-01	.3950-01	.6250-01	.9430	.2470-02	.3910-02	.2530	1.684	559.3
313	180.00	.42500	624.00	.6530-01	.4380-01	.7010-01	.9430	.2739-02	.4386-02	.2750	1.830	561.3
313	180.00	.43000	625.00	.6450-01	.4330-01	.6920-01	.9430	.2710-02	.4331-02	.2730	1.823	560.9
313	180.00	.44000	626.00	.6110-01	.4110-01	.6550-01	.9430	.2573-02	.4099-02	.2610	1.741	560.4
313	180.00	.44500	627.00	.6150-01	.4140-01	.6600-01	.9430	.2587-02	.4129-02	.2610	1.761	560.7
313	180.00	.45000	628.00	.6130-01	.4110-01	.6580-01	.9430	.2569-02	.4115-02	.2580	1.736	561.4
313	180.00	.45500	629.00	.5700-01	.3850-01	.6110-01	.9430	.2407-02	.3822-02	.2450	1.678	559.9
313	180.00	.46000	630.00	.5760-01	.3890-01	.6180-01	.9430	.2430-02	.3865-02	.2470	1.648	560.
313	180.00	.47000	631.00	.5710-01	.3830-01	.6130-01	.9430	.2398-02	.3837-02	.2410	1.610	560.
313	180.00	.48000	632.00	.5790-01	.3890-01	.6220-01	.9430	.2435-02	.3889-02	.2460	1.649	560.3
313	180.00	.49000	633.00	.5740-01	.3860-01	.6160-01	.9430	.2416-02	.3851-02	.2450	1.657	560.5
313	180.00	.50000	634.00	.4810-01	.3260-01	.5160-01	.9430	.2041-02	.3225-02	.2100	1.458	559.0
313	180.00	.55000	635.00	.4370-01	.2950-01	.4690-01	.9430	.1842-02	.2935-02	.1870	1.231	560.4
313	180.00	.60000	636.00	.6890-01	.4540-01	.7430-01	.9430	.2840-02	.4649-02	.2750	1.759	564.8
313	180.00	.65000	637.00	.8550-01	.5590-01	.9230-01	.9430	.3494-02	.5775-02	.3340	2.137	566.3
313	180.00	.70000	638.00	.8740-01	.5690-01	.9450-01	.9430	.3557-02	.5913-02	.3370	2.282	567.1
313	180.00	.75000	639.00	.7290-01	.4760-01	.7880-01	.9430	.2975-02	.4930-02	.2830	1.807	566.6
313	180.00	.80000	640.00	.1039	.6710-01	.1125	.9430	.4195-02	.7037-02	.3920	2.429	568.3
313	180.00	.85000	641.00	.1091	.6940-01	.1186	.9430	.4341-02	.7419-02	.3950	2.464	570.8

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F19)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TH DEG. R
313	180.00	.86000	642.00	.1156	.7340-01	.1257	.9430	.4593-02	.7861-02	.4170	2.640	571.0
313	180.00	.87000	643.00	.1139	.7200-01	.1240	.9430	.4501-02	.7754-02	.4050	2.578	571.8
313	180.00	.88000	644.00	.1110	.7000-01	.1209	.9430	.4381-02	.7565-02	.3930	2.521	572.1
313	180.00	.89000	645.00	.1123	.7060-01	.1224	.9430	.4417-02	.7655-02	.3940	2.559	572.6
313	180.00	.90000	646.00	.8750-01	.5620-01	.9490-01	.9430	.3514-02	.5938-02	.3250	2.158	569.3
313	180.00	.95000	649.00	.5830-01	.3790-01	.6300-01	.9430	.2368-02	.3942-02	.2240	1.599	567.3
313	191.25	.35000	650.00	.5300-01	.4210-01	.6770-01	.9430	.2633-02	.4234-02	.2630	1.752	562.0
313	191.25	.36000	651.00	.6270-01	.4200-01	.6730-01	.9430	.2628-02	.4209-02	.2640	1.766	561.3
313	191.25	.37000	652.00	.6650-01	.4470-01	.7140-01	.9430	.2794-02	.4466-02	.2820	1.879	561.0
313	191.25	.37500	653.00	.5380-01	.3630-01	.5770-01	.9430	.2270-02	.3608-02	.2310	1.546	560.0
313	191.25	.38000	654.00	.6370-01	.4280-01	.6840-01	.9430	.2678-02	.4276-02	.2700	1.810	560.8
313	191.25	.38500	655.00	.6310-01	.4230-01	.6780-01	.9430	.2646-02	.4241-02	.2650	1.776	561.5
313	191.25	.39000	656.00	.6940-01	.4640-01	.7460-01	.9430	.2905-02	.4665-02	.2900	1.943	561.8
313	191.25	.39500	657.00	.6550-01	.4380-01	.7030-01	.9430	.2742-02	.4399-02	.2750	1.838	561.6
313	191.25	.40000	658.00	.6510-01	.4340-01	.6990-01	.9430	.2717-02	.4375-02	.2710	1.815	562.2
313	191.25	.41000	660.00	.6630-01	.4410-01	.7120-01	.9430	.2761-02	.4456-02	.2740	1.831	562.6
313	191.25	.41500	661.00	.6810-01	.4570-01	.7320-01	.9430	.2859-02	.4576-02	.2870	1.918	561.2
313	191.25	.42000	662.00	.6880-01	.4570-01	.7400-01	.9430	.2855-02	.4629-02	.2810	1.879	563.3
313	191.25	.42500	663.00	.6630-01	.4410-01	.7130-01	.9430	.2756-02	.4460-02	.2720	1.825	563.0
313	191.25	.43000	664.00	.6950-01	.4610-01	.7480-01	.9430	.2383-02	.4680-02	.2830	1.917	563.5
313	191.25	.44000	665.00	.7060-01	.4670-01	.7600-01	.9430	.2924-02	.4752-02	.2870	1.928	563.7
313	191.25	.45000	666.00	.6740-01	.4480-01	.7260-01	.9430	.2803-02	.4539-02	.2760	1.859	563.1
313	191.25	.45500	667.00	.6750-01	.4480-01	.7260-01	.9430	.2801-02	.4544-02	.2760	1.854	563.4
313	191.25	.46000	668.00	.6240-01	.4160-01	.6710-01	.9430	.2600-02	.4194-02	.2580	1.741	562.5
313	191.25	.47000	669.00	.6760-01	.4490-01	.7280-01	.9430	.2807-02	.4554-02	.2760	1.867	563.4
313	191.25	.48000	670.00	.7110-01	.4710-01	.7650-01	.9430	.2946-02	.4785-02	.2890	1.956	563.6
313	191.25	.49000	671.00	.6750-01	.4470-01	.7280-01	.9430	.2795-02	.4551-02	.2730	1.843	564.0
313	191.25	.50000	672.00	.5790-01	.3860-01	.6220-01	.9430	.2412-02	.3891-02	.2390	1.651	562.5
313	191.25	.60000	673.00	.8730-01	.5600-01	.9470-01	.9430	.3501-02	.5921-02	.3230	2.049	569.4
313	191.25	.70000	674.00	.1028	.6400-01	.1123	.9430	.4000-02	.7025-02	.3500	2.352	574.1
313	191.25	.85000	676.00	.1274	.7960-01	.1391	.9430	.4979-02	.8698-02	.4390	2.739	573.5
313	191.25	.86000	677.00	.1298	.8060-01	.1420	.9430	.5041-02	.8881-02	.4400	2.772	574.5
313	191.25	.87000	678.00	.1308	.8060-01	.1434	.9430	.5039-02	.8867-02	.4340	2.758	575.6
313	191.25	.88000	679.00	.1293	.7940-01	.1418	.9430	.4968-02	.8866-02	.4260	2.741	575.9
313	191.25	.89000	680.00	.1300	.7980-01	.1425	.9430	.4990-02	.8913-02	.4280	2.790	576.0
313	191.25	.90000	681.00	.1163	.7200-01	.1273	.9430	.4506-02	.7963-02	.3920	2.603	574.9
313	191.25	.91000	682.00	.7380-01	.4710-01	.8020-01	.9430	.2944-02	.5018-02	.2690	1.936	570.5
313	191.25	.92600	683.00	.8710-01	.5430-01	.9520-01	.9430	.3394-02	.5952-02	.2980	2.151	574.0
313	191.25	.95000	684.00	.5900-01	.3650-01	.6370-01	.9430	.2406-02	.3986-02	.2290	1.638	566.6
313	197.00	.33000	685.00	.6220-01	.4160-01	.6690-01	.9430	.2605-02	.4183-02	.2600	1.737	561.8
313	197.00	.34000	686.00	.6400-01	.4270-01	.6880-01	.9430	.2674-02	.4306-02	.2660	1.774	562.2
313	197.00	.35000	687.00	.6430-01	.4300-01	.6910-01	.9430	.2689-02	.4324-02	.2680	1.789	562.0
313	197.00	.36000	688.00	.6600-01	.4400-01	.7090-01	.9430	.2755-02	.4435-02	.2740	1.829	562.2

(RV7F19)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
313	197.00	.37000	689.00	.6170-01	.4150-01	.6630-01	.9430	.2595-02	.4145-02	.2620	1.748	560.8
313	197.00	.37500	690.00	.6810-01	.4550-01	.7310-01	.9430	.2846-02	.4574-02	.2840	1.902	561.9
313	197.00	.50000	691.00	.6780-01	.4450-01	.7310-01	.9430	.2786-02	.4572-02	.2690	1.791	565.2
313	197.00	.60000	692.00	.8210-01	.5290-01	.8900-01	.9430	.3310-02	.5566-02	.3080	1.965	568.7
313	197.00	.70000	693.00	.9500-01	.5970-01	.1035	.9430	.3734-02	.6474-02	.3330	2.229	572.6
313	197.00	.80000	694.00	.1187	.7490-01	.1293	.9430	.4686-02	.8089-02	.4200	2.607	572.1
313	197.00	.87000	695.00	.1387	.8590-01	.1518	.9430	.5373-02	.9493-02	.4670	2.936	574.8
313	197.00	.92600	696.00	.7760-01	.4860-01	.8470-01	.9430	.3040-02	.5297-02	.2690	1.943	573.2
313	209.80	.15000-01	697.00	.2111	.1351	.2291	.9430	.8451-02	.1433-01	.7770	5.274	569.8
314	209.80	.30000-01	698.00	.3190	.2050	.2843	.9610	.1282-01	.1778-01	1.187	7.986	569.4
314	209.80	.50000-01	699.00	.2855	.1874	.2657	.9571	.1172-01	.1662-01	1.129	7.110	565.6
314	209.80	.70000-01	700.00	.2942	.1803	.2850	.9526	.1128-01	.1782-01	.9640	6.425	576.5
314	209.80	.10000+00	701.00	.2176	.1420	.2232	.9476	.8882-02	.1396-01	.8470	5.345	566.6
314	209.80	.15000	702.00	.1352	.8910-01	.1450	.9435	.5574-02	.9066-02	.5410	3.835	564.9
314	209.80	.20000	703.00	.1000+00	.6940-01	.1066	.9430	.4339-02	.6669-02	.4690	3.110	554.0
314	209.80	.30000	704.00	.7240-01	.5070-01	.7700-01	.9430	.3170-02	.4814-02	.3500	2.475	551.5
314	209.80	.37500	706.00	.6360-01	.4520-01	.6750-01	.9430	.2825-02	.4220-02	.3220	2.213	547.8
314	209.80	.50000	707.00	.6840-01	.4800-01	.7270-01	.9430	.3001-02	.4545-02	.3330	2.277	550.9
314	209.80	.60000	708.00	.9100-01	.6320-01	.9690-01	.9430	.3950-02	.6061-02	.4280	2.719	553.6
314	209.80	.70000	709.00	.1067	.7180-01	.1146	.9430	.4489-02	.7161-02	.4540	2.872	560.9
314	209.80	.80000	710.00	.1244	.8320-01	.1336	.9430	.5200-02	.8358-02	.5190	3.211	562.1
314	209.80	.87000	711.00	.1379	.9070-01	.1487	.9430	.5670-02	.9302-02	.5480	3.431	565.3
314	209.80	.92600	712.00	.8820-01	.5840-01	.9490-01	.9430	.3653-02	.5938-02	.3580	2.582	563.9
314	217.70	.15000-01	713.00	.2442	.1662	.2614	.9430	.1039-01	.1635-01	1.077	7.375	558.4
314	217.70	.30000-01	714.00	.3197	.2048	.2831	.9615	.1281-01	.1771-01	1.179	7.932	569.9
314	217.70	.50000-01	715.00	.3819	.2468	.3527	.9576	.1543-01	.2205-01	1.444	9.316	568.4
314	217.70	.70000-01	716.00	.3583	.2108	.3440	.9530	.1318-01	.2151-01	1.060	7.110	581.6
314	217.70	.10000+00	717.00	.2590	.1660	.2652	.9479	.1038-01	.1659-01	.9570	6.137	569.8
314	217.70	.15000	718.00	.1428	.9390-01	.1530	.9436	.5872-02	.9566-02	.5670	4.114	565.3
314	217.70	.20000	719.00	.9940-01	.6890-01	.1059	.9430	.4308-02	.6625-02	.4650	3.121	554.1
314	217.70	.30000	720.00	.6340-01	.4440-01	.6740-01	.9430	.2777-02	.4214-02	.3070	2.193	551.3
314	217.70	.35000	721.00	.6780-01	.4810-01	.7190-01	.9430	.3005-02	.4495-02	.3420	2.369	548.1
314	217.70	.37500	722.00	.6580-01	.4670-01	.6980-01	.9430	.2921-02	.4364-02	.3330	2.309	547.9
314	217.70	.50000	723.00	.5780-01	.4100-01	.6130-01	.9430	.2563-02	.3833-02	.2920	2.016	548.1
314	217.70	.70000	725.00	.8910-01	.6110-01	.9520-01	.9430	.3822-02	.5956-02	.4020	2.545	556.7
314	217.70	.80000	726.00	.1046	.7130-01	.1120	.9430	.4456-02	.7003-02	.4620	2.890	558.2
314	217.70	.87000	727.00	.1170	.7870-01	.1256	.9430	.4920-02	.7852-02	.4970	3.155	560.9
314	217.70	.92600	728.00	.8130-01	.5480-01	.8720-01	.9430	.3426-02	.5452-02	.3480	2.511	560.5

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = 10.00 BETA = -3.000 GRIT = 3.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
285	3.510	4.844	10.01	2.900	-16.00	57.20	.7390	677.0	195.5	6.372	2405.	.3170-03
290	3.510	4.831	10.04	2.900	-16.00	57.10	.7380	678.0	195.6	6.362	2406.	.3163-03
291	3.510	4.821	10.05	2.900	-16.00	56.90	.7360	678.0	195.6	6.345	2405.	.3156-03
292	3.510	4.822	10.05	2.900	-16.00	56.90	.7360	677.0	195.6	6.347	2405.	.3157-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
285	.1574-06	.5541-01	.9241-02
290	.1575-06	.5537-01	.9252-02
291	.1575-06	.5530-01	.9263-02
292	.1575-06	.5530-01	.9261-02

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
291	.00000	.30000-02	730.00	.5052	.3170	.3510	.9870	.1753-01	.1941-01	1.594	10.73	595.6
291	.00000	.10300-01	731.00	.3586	.2445	.4381	.9305	.1352-01	.2423-01	1.440	9.800	571.0
291	.00000	.15000-01	732.00	.4273	.2819	.5348	.9305	.1559-01	.2957-01	1.551	10.39	578.0
291	.00000	.20000-01	733.00	.7035	.4002	.4551	.9860	.2213-01	.2517-01	1.738	11.63	599.0
291	.00000	.25000-01	734.00	1.034	.4963	.5960	.9839	.2744-01	.3296-01	1.788	11.78	612.4
291	.00000	.30000-01	735.00	.8294	.4581	.5453	.9821	.2533-01	.3015-01	1.916	12.76	601.9
291	.00000	.40000-01	737.00	.5175	.3345	.3879	.9805	.1850-01	.2145-01	1.772	11.36	581.7
291	.00000	.45000-01	738.00	.5594	.3545	.4202	.9787	.1960-01	.2324-01	1.813	11.78	585.0
291	.00000	.60000-01	739.00	.5594	.3267	.4208	.9731	.1807-01	.2327-01	1.471	9.648	596.1
291	.00000	.70000-01	740.00	.5181	.3506	.4760	.9696	.1938-01	.2632-01	1.517	9.994	599.3
291	.00000	.80000-01	741.00	.4618	.2765	.3798	.9661	.1529-01	.2100-01	1.290	9.168	593.1
291	.00000	.10000+00	742.00	.3996	.2584	.3616	.9596	.1429-01	.1999-01	1.370	8.996	581.6
291	.00000	.12500	743.00	.3365	.2089	.3275	.9522	.1155-01	.1811-01	1.032	7.352	588.2
291	.00000	.15000	744.00	.2849	.1858	.2984	.9458	.1027-01	.1650-01	1.001	6.842	580.1
291	.00000	.17500	745.00	.2008	.1358	.2215	.9402	.7510-02	.1225-01	.7860	5.829	572.9
291	.00000	.20000	746.00	.1578	.1105	.1798	.9357	.6109-02	.9941-02	.6910	4.897	564.5

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
291	.00000	.21500	747.00	.1442	.1014	.1677	.9334	.5605-02	.9273-02	.6390	4.392	563.5
291	.00000	.23000	748.00	.1229	.8580-01	.1461	.9316	.4747-02	.8080-02	.5340	3.907	565.1
291	.00000	.24000	749.00	.1071	.7520-01	.1284	.9305	.4157-02	.7099-02	.4720	3.529	564.0
291	.00000	.25000	750.00	.6430-01	.4580-01	.7640-01	.9305	.2530-02	.4224-02	.2970	2.387	560.1
291	.00000	.30000	751.00	.1066	.7540-01	.1270	.9305	.4171-02	.7020-02	.4840	3.152	561.5
291	.00000	.40000	753.00	.1080	.7740-01	.1278	.9305	.4278-02	.7065-02	.5100	3.263	558.2
291	.00000	.50000	754.00	.9660-01	.6740-01	.1161	.9305	.3728-02	.6421-02	.4190	2.713	565.3
291	.00000	.60000	755.00	.1026	.7240-01	.1225	.9305	.4002-02	.6775-02	.4600	2.927	562.5
291	.00000	.70000	756.00	.9970-01	.6880-01	.1208	.9305	.3806-02	.6677-02	.4170	2.721	568.1
291	.00000	.80000	757.00	.9570-01	.6590-01	.1162	.9305	.3644-02	.6426-02	.3960	2.455	568.8
291	.00000	.90000	758.00	.4390-01	.2900-01	.5500-01	.9305	.1603-02	.3039-02	.1600	1.017	577.9
291	55.000	.22000	759.00	.1122	.7960-01	.1324	.9314	.4402-02	.7320-02	.5130	3.790	561.0
291	55.000	.25000	760.00	.6190-01	.4430-01	.7380-01	.9296	.2448-02	.4083-02	.2920	2.273	558.3
291	55.000	.27000	761.00	.7090-01	.5000-01	.8560-01	.9296	.2764-02	.4731-02	.3170	2.343	562.7
291	55.000	.30000	762.00	.9810-01	.7030-01	.1169	.9296	.3889-02	.6464-02	.4660	2.786	557.7
291	55.000	.32000	763.00	.1014	.7320-01	.1203	.9296	.4048-02	.6653-02	.4930	2.907	555.6
291	55.000	.34000	764.00	.1014	.7340-01	.1202	.9296	.4060-02	.6646-02	.4980	2.942	554.9
291	55.000	.36000	765.00	.9750-01	.7070-01	.1154	.9296	.3908-02	.6378-02	.4820	2.895	554.3
291	55.000	.38000	766.00	.9870-01	.7170-01	.1167	.9296	.3964-02	.6452-02	.4910	2.973	553.7
291	55.000	.40000	767.00	.9400-01	.6820-01	.1111	.9296	.3772-02	.6145-02	.4660	2.903	553.9
291	67.500	.23000	768.00	.1017	.7240-01	.1218	.9296	.4004-02	.6733-02	.4710	3.480	559.9
291	67.500	.25000	769.00	.5720-01	.4110-01	.6840-01	.9289	.2275-02	.3782-02	.2750	2.128	555.7
291	67.500	.27000	770.00	.7600-01	.5400-01	.9180-01	.9289	.2986-02	.5076-02	.3490	2.529	560.6
291	67.500	.29000	771.00	.6180-01	.4450-01	.7390-01	.9289	.2462-02	.4086-02	.2980	1.840	555.3
291	67.500	.30000	772.00	.8780-01	.6330-01	.1050	.9289	.3500-02	.5867-02	.4240	2.579	555.3
291	67.500	.31000	773.00	.8930-01	.6440-01	.1067	.9289	.3562-02	.5897-02	.4330	2.612	556.0
291	67.500	.32000	774.00	.9030-01	.6550-01	.1076	.9289	.3620-02	.5949-02	.4450	2.663	554.6
291	67.500	.32500	775.00	.9160-01	.6550-01	.1089	.9289	.3679-02	.6022-02	.4550	2.726	553.9
291	67.500	.33000	776.00	.9030-01	.6560-01	.1074	.9289	.3628-02	.5936-02	.4490	2.707	553.7
291	67.500	.33500	777.00	.8760-01	.6370-01	.1040	.9289	.3523-02	.5781-02	.4380	2.628	553.2
291	67.500	.34000	778.00	.8830-01	.6420-01	.1048	.9289	.3550-02	.5796-02	.4410	2.659	553.2
291	67.500	.34500	779.00	.8990-01	.6460-01	.1057	.9289	.3575-02	.5843-02	.4430	2.679	553.5
291	67.500	.35000	780.00	.8460-01	.6090-01	.9920-01	.9289	.3387-02	.5487-02	.4200	2.543	552.9
291	67.500	.36000	782.00	.8360-01	.6020-01	.9800-01	.9289	.3328-02	.5421-02	.4150	2.522	552.8
291	67.500	.36500	783.00	.8220-01	.6000-01	.9740-01	.9289	.3317-02	.5385-02	.4160	2.520	552.2
291	67.500	.37000	784.00	.7990-01	.5830-01	.9460-01	.9289	.3226-02	.5233-02	.4050	2.469	552.0
291	67.500	.37500	785.00	.8260-01	.6030-01	.9780-01	.9289	.3335-02	.5410-02	.4190	2.574	552.0
291	67.500	.38000	786.00	.7940-01	.5790-01	.9410-01	.9289	.3202-02	.5205-02	.4010	2.468	552.4
291	67.500	.38000	787.00	.8830-01	.6430-01	.1047	.9289	.3556-02	.5790-02	.4440	2.742	552.7
291	67.500	.40000	788.00	.7740-01	.5640-01	.9130-01	.9289	.3110-02	.5080-02	.3930	2.423	552.8
291	67.500	.50000	789.00	.7780-01	.5660-01	.9370-01	.9289	.3069-02	.5183-02	.3820	2.308	559.5
291	67.500	.60000	790.00	.8840-01	.6430-01	.1069	.9289	.3585-02	.5913-02	.4290	2.602	556.8
291	67.500	.70000	791.00	.8370-01	.6090-01	.1017	.9289	.3258-02	.5625-02	.3730	2.611	563.1

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) B // R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
291	67.500	.80000	792.00	.7920-01	.5650-01	.9520-01	.9289	.3127-02	.5266-02	.3710	2.315	559.0
291	67.500	.90000	793.00	.4030-01	.2780-01	.4970-01	.9289	.1538-02	.2748-02	.1680	1.073	568.2
291	78.000	.27000	794.00	.7020-01	.5010-01	.8480-01	.9284	.2773-02	.4687-02	.3290	2.334	558.7
291	78.000	.29000	795.00	.6050-01	.4390-01	.7220-01	.9284	.2427-02	.3955-02	.3000	1.842	553.9
292	78.000	.30000	796.00	.8410-01	.6110-01	.1004	.9284	.3378-02	.5551-02	.4190	2.526	553.6
292	78.000	.31000	797.00	.8220-01	.5990-01	.9800-01	.9284	.3312-02	.5420-02	.4130	2.496	552.8
292	78.000	.32000	798.00	.7940-01	.5790-01	.9450-01	.9284	.3203-02	.5227-02	.4010	2.411	552.3
292	78.000	.32500	799.00	.8100-01	.5930-01	.9630-01	.9284	.3278-02	.5327-02	.4130	2.492	551.4
292	78.000	.33000	800.00	.7960-01	.5810-01	.9470-01	.9284	.3215-02	.5237-02	.4040	2.436	551.9
292	78.000	.33500	801.00	.8330-01	.6100-01	.9890-01	.9284	.3375-02	.5468-02	.4280	2.579	550.8
292	78.000	.34000	802.00	.8190-01	.5990-01	.9730-01	.9284	.3313-02	.5380-02	.4180	2.522	551.3
292	78.000	.34500	803.00	.7740-01	.5680-01	.9160-01	.9284	.3143-02	.5068-02	.4010	2.428	549.8
292	78.000	.35000	804.00	.7330-01	.5820-01	.9400-01	.9284	.3218-02	.5197-02	.4100	2.480	550.1
292	78.000	.35500	805.00	.7680-01	.5650-01	.9090-01	.9284	.3123-02	.5027-02	.4000	2.421	549.5
292	78.000	.36000	806.00	.7340-01	.5390-01	.8690-01	.9284	.2982-02	.4806-02	.3810	2.313	549.7
292	78.000	.36500	807.00	.7010-01	.5160-01	.8290-01	.9284	.2854-02	.4583-02	.3670	2.234	548.9
292	78.000	.37000	808.00	.7240-01	.5320-01	.8570-01	.9284	.2944-02	.4740-02	.3770	2.301	549.5
292	78.000	.37500	809.00	.7690-01	.5650-01	.9110-01	.9284	.3126-02	.5040-02	.3990	2.437	549.8
292	78.000	.38000	810.00	.7360-01	.5420-01	.8710-01	.9284	.2996-02	.4819-02	.3840	2.358	549.3
292	78.000	.39000	811.00	.7620-01	.5590-01	.9050-01	.9284	.3089-02	.5004-02	.3920	2.408	550.7
292	78.000	.40000	812.00	.5440-01	.4020-01	.6410-01	.9284	.2226-02	.3544-02	.2900	1.788	547.1
285	90.000	.40000-01	985.00	.4101	.2763	.3526	.9668	.1531-01	.1954-01	1.589	10.20	573.5
285	90.000	.50000-01	986.00	.4859	.3246	.4292	.9633	.1798-01	.2378-01	1.834	11.70	575.3
285	90.000	.60000-01	987.00	.4913	.3061	.4387	.9599	.1696-01	.2431-01	1.524	9.827	587.5
285	90.000	.80000-01	989.00	.4000	.2543	.3840	.9536	.1409-01	.2128-01	1.310	9.106	584.3
285	90.000	.15000	991.00	.1939	.1321	.2207	.9370	.7320-02	.1223-01	.7780	5.641	571.0
292	90.000	.20000	813.00	.1550-01	.1150-01	.1820-01	.9283	.6364-03	.1004-02	.8400-01	.6140	544.8
292	90.000	.24000	814.00	.6500-01	.4760-01	.7870-01	.9280	.2632-02	.4353-02	.3250	2.616	554.1
292	90.000	.27000	816.00	.6470-01	.4690-01	.7760-01	.9280	.2592-02	.4292-02	.3190	2.261	554.3
292	90.000	.29000	817.00	.5750-01	.4200-01	.6870-01	.9280	.2321-02	.3799-02	.2910	1.803	552.1
292	90.000	.30000	818.00	.8510-01	.6180-01	.1020	.9280	.3420-02	.5638-02	.4240	2.582	553.5
292	90.000	.31000	819.00	.7710-01	.5630-01	.9210-01	.9280	.3116-02	.5092-02	.3920	2.369	551.8
292	90.000	.32000	820.00	.7800-01	.5730-01	.9270-01	.9280	.3167-02	.5128-02	.4040	2.438	549.9
292	90.000	.32500	821.00	.7870-01	.5780-01	.9360-01	.9280	.3198-02	.5175-02	.4080	2.457	549.9
292	90.000	.33000	822.00	.7200-01	.5310-01	.8540-01	.9280	.2938-02	.4721-02	.3790	2.292	548.3
292	90.000	.34000	824.00	.7020-01	.5180-01	.8310-01	.9280	.2865-02	.4597-02	.3710	2.235	548.0
292	90.000	.34500	825.00	.7220-01	.5340-01	.8530-01	.9280	.2955-02	.4719-02	.3850	2.330	547.0
292	90.000	.35000	826.00	.6940-01	.5120-01	.8220-01	.9280	.2834-02	.4549-02	.3670	2.215	548.1
292	90.000	.36000	828.00	.6800-01	.5010-01	.8060-01	.9280	.2773-02	.4457-02	.3580	2.157	548.4
292	90.000	.36500	829.00	.6690-01	.4940-01	.7930-01	.9280	.2733-02	.4385-02	.3540	2.137	548.0
292	90.000	.37000	830.00	.6830-01	.5060-01	.8070-01	.9280	.2800-02	.4464-02	.3660	2.220	546.7
292	90.000	.37500	831.00	.6740-01	.4980-01	.7970-01	.9280	.2754-02	.4410-02	.3580	2.180	547.6
292	90.000	.38000	832.00	.6550-01	.4850-01	.7750-01	.9280	.2682-02	.4285-02	.3500	2.130	547.1

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F19)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
292	90.000	.39000	833.00	.6220-01	.4600-01	.7370-01	.9280	.2543-02	.4075-02	.3300	2.033	547.7
292	90.000	.40000	834.00	.6200-01	.4580-01	.7340-01	.9280	.2535-02	.4061-02	.3290	2.031	547.7
292	90.000	.50000	835.00	.5940-01	.4300-01	.7140-01	.9280	.2379-02	.3948-02	.2920	1.838	554.8
292	90.000	.60000	836.00	.6030-01	.4410-01	.7190-01	.9280	.2439-02	.3975-02	.3080	2.046	551.2
292	90.000	.70000	837.00	.5380-01	.3860-01	.6490-01	.9280	.2137-02	.3592-02	.2570	1.802	557.1
292	90.000	.80000	838.00	.5610-01	.4080-01	.6720-01	.9280	.2258-02	.3719-02	.2800	1.737	553.3
292	90.000	.90000	839.00	.2870-01	.2050-01	.3490-01	.9280	.1132-02	.1929-02	.1340	.8490	559.4
292	112.50	.23000	840.00	.5260-01	.3870-01	.6250-01	.9278	.2143-02	.3459-02	.2750	2.217	549.0
292	112.50	.25000	841.00	.2940-01	.2180-01	.3490-01	.9278	.1203-02	.1931-02	.1560	1.211	547.6
292	112.50	.30000	843.00	.5760-01	.4240-01	.6860-01	.9278	.2347-02	.3791-02	.3010	1.790	549.1
292	112.50	.33000	844.00	.5710-01	.4230-01	.6770-01	.9278	.2342-02	.3742-02	.3060	1.945	546.8
292	112.50	.35000	845.00	.5150-01	.3830-01	.6080-01	.9278	.2120-02	.3366-02	.2800	1.718	545.3
292	112.50	.37000	846.00	.5150-01	.3830-01	.6090-01	.9278	.2117-02	.3366-02	.2790	1.720	545.7
292	112.50	.40000	847.00	.4780-01	.3570-01	.5630-01	.9278	.1972-02	.3116-02	.2630	1.639	544.3
292	112.50	.45000	848.00	.4190-01	.3120-01	.4950-01	.9278	.1728-02	.2736-02	.2290	1.444	544.7
292	112.50	.50000	849.00	.3980-01	.2930-01	.4740-01	.9278	.1619-02	.2623-02	.2070	1.329	548.6
292	112.50	.55000	850.00	.2780-01	.2050-01	.3300-01	.9278	.1131-02	.1825-02	.1450	.9710	548.9
292	112.50	.60000	851.00	.4100-01	.3030-01	.4860-01	.9278	.1676-02	.2685-02	.2180	1.460	547.4
292	112.50	.65000	852.00	.3770-01	.2780-01	.4480-01	.9278	.1540-02	.2475-02	.1990	1.356	549.0
292	112.50	.70000	853.00	.3250-01	.2380-01	.3890-01	.9278	.1315-02	.2151-02	.1650	1.157	551.7
292	112.50	.75000	854.00	.2070-01	.1510-01	.2480-01	.9278	.8330-03	.1369-02	.1040	.6930	552.5
292	112.50	.80000	855.00	.3040-01	.2240-01	.3630-01	.9278	.1236-02	.2005-02	.1580	1.025	549.9
292	112.50	.90000	856.00	.1460-01	.1060-01	.1760-01	.9278	.5966-03	.9730-03	.7200-01	.4670	554.3
292	125.40	.84000	857.00	.3100-01	.2270-01	.3700-01	.9278	.1257-02	.2046-02	.1590	.9940	550.6
292	125.40	.86000	858.00	.3030-01	.2210-01	.3620-01	.9278	.1224-02	.2003-02	.1540	.9630	551.8
292	125.40	.88000	859.00	.3090-01	.2260-01	.3700-01	.9278	.1247-02	.2047-02	.1560	.9760	552.3
292	125.40	.97000	860.00	.3190-01	.2320-01	.3820-01	.9278	.1288-02	.2113-02	.1610	1.007	552.5
292	125.40	.68000	861.00	.3700-01	.2690-01	.4440-01	.9278	.1484-02	.2456-02	.1930	1.148	553.9
292	125.40	.89000	862.00	.3720-01	.2700-01	.4470-01	.9278	.1491-02	.2478-02	.1940	1.168	554.2
292	125.40	.90000	863.00	.2450-01	.1770-01	.2960-01	.9278	.9814-03	.1636-02	.1280	.7590	555.2
292	125.40	.91000	864.00	.1270-01	.9200-02	.1520-01	.9278	.5109-03	.8412-03	.6600-01	.4860	552.9
292	125.40	.92000	865.00	.1880-01	.1370-01	.2330-01	.9278	.7555-03	.1293-02	.6900-01	.6430	559.3
292	129.30	.80000	866.00	.3100-01	.2270-01	.3700-01	.9278	.1256-02	.2045-02	.1590	.9990	550.7
292	129.30	.81000	867.00	.3?10-01	.2?20-01	.3?40-01	.9278	.1?40-02	.2?80-02	.1?00	.1081	550.6
292	129.30	.82000	868.00	.3180-01	.2340-01	.3790-01	.9278	.1284-02	.2035-02	.1650	1.029	549.9
292	129.30	.83000	869.00	.3050-01	.2230-01	.3640-01	.9278	.1?35-02	.2011-02	.1570	.9760	550.7
292	135.00	.40000-01	870.00	.3218	.2200	.3099	.9541	.1217-01	.1704-01	1.304	8.267	570.3
292	135.00	.50000-01	871.00	.2884	.2136	.2662	.9510	.1402-01	.2125-01	1.515	9.578	559.1
292	135.00	.60000-01	872.00	.3224	.2438	.3290	.9480	.1182-01	.1820-01	1.169	7.775	575.9
292	135.00	.70000-01	873.00	.3003	.2265	.3986	.9453	.1306-01	.2205-01	1.193	7.869	555.3
292	135.00	.10000+00	875.00	.1683	.1394	.2170	.9383	.7703-02	.1200-01	.8000	5.269	550.7
292	135.00	.15000	876.00	.1193	.0540-01	.1407	.9308	.4722-02	.7781-02	.5630	4.097	568.2
292	135.00	.20000	877.00	.6820-01	.4090-01	.7850-01	.9279	.2702-02	.4344-02	.3490	2.354	548.2

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
292	135.00	.35000	878.00	.4220-01	.3150-01	.4970-01	.9278	.1743-02	.2751-02	.2320	1.447	544.1
292	135.00	.40000	879.00	.3990-01	.2980-01	.4700-01	.9278	.1647-02	.2602-02	.2200	1.393	544.2
292	135.00	.50000	880.00	.2240-01	.1650-01	.2660-01	.9278	.9139-03	.1471-02	.1160	.8100	548.3
292	135.00	.55000	881.00	.1330-01	.9800-02	.1580-01	.9278	.5419-03	.8710-03	.7000-01	.4670	548.0
292	135.00	.60000	882.00	.2180-01	.1610-01	.2590-01	.9278	.8922-03	.1433-02	.1160	.7770	547.9
292	135.00	.65000	883.00	.2010-01	.1490-01	.2380-01	.9278	.8222-03	.1314-02	.1070	.7330	546.9
292	135.00	.70000	884.00	.1990-01	.1450-01	.2380-01	.9278	.9036-03	.1318-02	.1010	.7140	552.1
292	135.00	.75000	885.00	.2180-01	.1590-01	.2610-01	.9278	.8776-03	.1445-02	.1090	.6870	552.9
292	135.00	.80000	886.00	.2550-01	.1870-01	.3040-01	.9278	.1037-02	.1679-02	.1330	.8320	549.6
292	135.00	.84000	887.00	.7590-01	.5980-01	.9460-01	.9130	.2679-02	.4234-02	.3000	.0000	544.7
285	135.00	.85000	888.00	.2290-01	.1680-01	.2730-01	.9278	.9285-03	.1511-02	.1180	.7450	550.5
285	135.00	.87000	890.00	.1940-01	.1410-01	.2320-01	.9278	.7833-03	.1284-02	.9800-01	.6230	551.9
285	135.00	.88000	891.00	.2120-01	.1540-01	.2550-01	.9278	.8521-03	.1392-02	.1050	.6700	553.9
285	135.00	.89000	892.00	.2000-01	.1450-01	.2410-01	.9278	.8034-03	.1337-02	.9800-01	.6370	554.8
285	135.00	.91000	894.00	.8000-03	.6000-03	.1000-02	.9278	.3332-04	.5480-04	.4000-02	.3000-01	552.6
285	135.00	.92600	895.00	.1050-01	.7500-02	.1270-01	.9278	.4182-03	.7014-03	.5100-01	.3670	556.2
285	135.00	.95000	896.00	.3160-01	.2260-01	.3840-01	.9278	.1252-02	.2130-02	.1490	1.067	558.5
285	142.30	.42000	897.00	.3490-01	.2610-01	.4110-01	.9278	.1445-02	.2276-02	.1940	1.2-8	543.3
285	142.30	.43500	898.00	.3340-01	.2500-01	.3920-01	.9278	.1387-02	.2171-02	.1880	1.177	541.9
285	142.30	.45000	899.00	.3120-01	.2330-01	.3660-01	.9278	.1292-02	.2029-02	.1760	1.112	542.5
285	142.30	.50000	900.00	.2380-01	.1770-01	.2820-01	.9278	.9782-03	.1564-02	.1280	.8500	546.8
285	142.30	.60000	901.00	.2230-01	.1650-01	.2630-01	.9278	.9169-03	.1457-02	.1210	.8040	545.4
285	142.30	.70000	902.00	.2530-01	.1850-01	.3010-01	.9278	.1027-02	.1670-02	.1300	.8880	550.3
285	142.30	.90000	903.00	.2240-01	.1650-01	.2660-01	.9278	.9119-03	.1475-02	.1170	.7910	549.2
285	142.30	.97000	904.00	.2810-01	.2050-01	.3370-01	.9278	.1135-02	.1867-02	.1420	.8920	552.6
285	154.98	.42000	905.00	.3250-01	.2430-01	.3820-01	.9278	.1349-02	.2115-02	.1820	1.176	542.4
285	154.98	.43500	906.00	.3240-01	.2430-01	.3810-01	.9278	.1345-02	.2110-02	.1810	1.176	542.5
285	154.98	.45000	907.00	.3000-01	.2250-01	.3530-01	.9278	.1245-02	.1958-02	.1670	1.083	543.0
285	154.98	.50000	908.00	.2270-01	.1680-01	.2690-01	.9278	.9329-03	.1493-02	.1220	.8700	546.9
285	154.98	.93500	913.00	.4420-01	.3160-01	.5380-01	.9278	.1749-02	.2981-02	.2070	1.495	559.0
285	154.98	.94500	914.00	.3050-01	.2180-01	.3710-01	.9278	.1205-02	.2054-02	.1430	1.031	559.0
285	157.50	.70000-01	918.00	.3724	.2324	.4142	.9416	.1288-01	.2295-01	1.160	7.992	587.2
285	157.50	.80000-01	919.00	.2723	.1840	3032	.9393	.1020-01	.1680-01	1.056	7.179	572.8
285	157.50	.10000+00	920.00	.1750	.1250	.1981	.9354	.6627-02	.1098-01	.8210	5.453	555.7
285	157.50	.20000	922.00	.4580-01	.3400-01	.5410-01	.9278	.1883-02	.2997-02	.2480	1.652	545.7
285	157.50	.42000	923.00	.3380-01	.2540-01	.3970-01	.9278	.1405-02	.2202-02	.1900	1.242	542.2
285	157.50	.43500	924.00	.2940-01	.2200-01	.3450-01	.9278	.1220-02	.1909-02	.1650	1.084	541.9
285	157.50	.45000	925.00	.2880-01	.2150-01	.3380-01	.9278	.1194-02	.1872-02	.1610	1.066	542.3
285	157.50	.85000	926.00	.2370-01	.1730-01	.2830-01	.9278	.9603-03	.1567-02	.1210	.7830	551.0
285	157.50	.86000	927.00	.2180-01	.1590-01	.2600-01	.9278	.6817-03	.1441-02	.1110	.7190	551.3
285	157.50	.87000	928.00	.3640-01	.2660-01	.4350-01	.9278	.1472-02	.2410-02	.1850	1.199	551.7
285	157.50	.88000	929.00	.2490-01	.1810-01	.2990-01	.9278	.1002-02	.1657-02	.1240	.8080	553.6
285	157.50	.89000	930.00	.2470-01	.1780-01	.2980-01	.9278	.9864-03	.1650-02	.1200	.7860	555.7

(RV7F19)

1H41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
285	157.50	.90000	931.00	.1800-01	.1300-01	.2170-01	.9278	.7197-03	.1200-02	.6800-01	.5900	555.1
285	157.50	.91000	932.00	.7500-02	.5500-02	.9100-02	.9278	.3032-03	.5025-03	.3700-01	.2730	554.0
285	157.50	.92600	933.00	.3240-01	.2330-01	.3920-01	.9278	.1290-02	.2173-02	.1550	1.128	556.9
285	163.12	.41500	934.00	.3420-01	.2570-01	.4000-01	.9278	.1424-02	.2218-02	.1950	1.266	540.6
285	163.12	.42000	935.00	.3310-01	.2490 01	.3890-01	.9278	.1378-02	.2154-02	.1870	1.227	541.5
285	163.12	.43000	937.00	.3130-01	.2340-01	.3680-01	.9278	.1299-02	.2039-02	.1750	1.152	542.5
285	163.12	.44000	938.00	.3250-01	.2430-01	.3820-01	.9278	.1347-02	.2117-02	.1810	1.186	542.9
285	163.12	.44500	939.00	.3130-01	.2340-01	.3680-01	.9278	.1298-02	.2040-02	.1740	1.160	542.9
285	163.12	.45000	940.00	.3210-01	.2400-01	.3770-01	.9278	.1329-02	.2090-02	.1780	1.187	543.1
285	163.12	.50000	941.00	.3130-01	.2320-01	.3710-01	.9278	.1296-02	.2055-02	.1690	1.139	546.7
285	163.12	.70000	943.00	.1800-01	.1330-01	.2140-01	.9278	.7382-03	.1188-02	.9500-01	.6490	548.7
285	163.12	.80000	944.00	.2210-01	.1620-01	.2640-01	.9278	.8988-03	.1462-02	.1140	.7430	550.3
285	168.00	.35000	945.00	.3380-01	.2540-01	.3950-01	.9278	.1408-02	.2197-02	.1920	1.218	541.2
285	168.00	.36000	946.00	.3510-01	.2640-01	.4110-01	.9278	.1466-02	.2278-02	.2010	1.282	540.2
285	168.00	.37500	948.00	.3240-01	.2430-01	.3800-01	.9278	.1345-02	.2105-02	.1820	1.164	541.8
285	168.00	.39500	950.00	.3020-01	.2280-01	.3540-01	.9278	.1262-02	.1962-02	.1730	1.119	540.2
285	168.00	.39000	951.00	.3290-01	.2470-01	.3850-01	.9278	.1367-02	.2134-02	.1860	1.210	541.2
285	168.00	.39500	952.00	.3310-01	.2490-01	.3890-01	.9278	.1378-02	.2154-02	.1870	1.200	541.5
285	168.00	.40000	953.00	.3310 01	.2490-01	.3910-01	.9278	.1381-02	.2164-02	.1870	1.218	542.1
285	168.00	.40500	954.00	.3440-01	.2580-01	.4050-01	.9278	.1429-02	.2242-02	.1930	1.260	542.4
285	168.00	.41000	955.00	.3400-01	.2550-01	.4000-01	.9278	.1411-02	.2214-02	.1930	1.245	542.4
285	168.00	.41500	956.00	.3480-01	.2610-01	.4090-01	.9278	.1444-02	.2265-02	.1950	1.278	542.4
285	168.00	.42000	957.00	.3450-01	.2590-01	.4060 01	.9278	.1432-02	.2247-02	.1940	1.277	542.0
285	168.00	.42500	958.00	.3280-01	.2470-01	.3850-01	.9278	.1366-02	.2135-02	.1860	1.221	541.5
285	168.00	.43000	959.00	.3470-01	.2600-01	.4080-01	.9278	.1443-02	.2261-02	.1950	1.279	542.2
285	168.00	.44000	960.00	.3420-01	.2560-01	.4020-01	.9278	.1421-02	.2227-02	.1920	1.263	542.2
285	168 00	.44500	961.00	.3440-01	.2570-01	.4050-01	.9278	.1429-02	.2242-02	.1910	1.263	542.5
285	168.00	.45000	962.00	.3320-01	.2470-01	.3900-01	.9278	.1371-02	.2184-02	.1830	1.210	543.8
285	168.00	.46000	964.00	.3260-01	.2430-01	.3850-01	.9278	.1345-02	.2151-02	.1780	1.186	544.7
285	168.00	.47000	966.00	.3240-01	.2410-01	.3820-01	.9278	.1335-02	.2118-02	.1770	1.178	545.0
285	168.00	.48000	968.00	.3430-01	.2550-01	.4040-01	.9278	.1409-02	.2248-02	.1880	1.242	545.2
285	168.00	.49000	970.00	.3430-01	.2550-01	.4040-01	.9278	.1413-02	.2239-02	.1870	1.251	544.5
285	168.00	.85000	978.00	.2260-01	.1650-01	.2690-01	.9278	.9183-03	.1430-02	.1150	.7460	551.1
285	169.00	.86000	980.00	.1950-01	.1400-01	.2270-01	.9278	.7884-03	.1239-02	.9900-01	.6370	552.2
285	169.00	.87000	982.00	.1920-01	.1400-01	.2310-01	.9278	.7749-03	.1278-02	.1030-0	.6860	553.1
285	169.00	.88000	984.00	.1880-01	.1380-01	.2270-01	.9278	.7541-03	.1259-02	.9900-01	.6710	554.0
285	169.00	.89000	986.00	.1860-01	.1360-01	.2240-01	.9278	.7488-03	.1242-02	.9800-01	.6650	554.3
285	169.00	.89500	987.00	.1800-01	.1310-01	.2160-01	.9278	.7254-03	.1202-02	.9500-01	.6440	555.0
285	169.00	.90000	988.00	.1800-02	.5900-02	.9900-02	.9278	.3984-03	.6622-03	.4900-01	.3290	554.0
285	169.00	.91000	990.00	-.4100-02	-.3000-02	-.5000-02	.9278	-.1664-03	-.2778-03	-.2100-01	-.1430	554.0
285	169.00	.92600	993.00	.1790-01	.1280-01	.2170-01	.9278	.7073-03	.1204-02	.9400-01	.6240	554.2
285	169.00	.95000	998.00	.3060-01	.2180-01	.3740-01	.9278	.1205-02	.2071-02	.1610	1.099	553.2
285	180.00	.20000-01	982.00	.1598	.1168	.1814	.9520	.6471-02	.9723-02	.7150	5.650	554.4
285	180.00	.25000-01	983.00	.2097	.1557	.2033	.9502	.8342-02	.1263-01	.902	6.983	554.2

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F19)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
285	180.00	.30000-01	984.00	.2602	.1820	.2629	.9488	.1009-01	.1457-01	1.137	7.737	564.6
290	180.00	.40000-01	600.00	.2524	.1746	.2582	.9475	.9669-02	.1430-01	1.063	6.764	567.8
290	180.00	.50000-01	601.00	.2687	.1845	.2826	.9446	.1022-01	.1565-01	1.106	7.049	569.5
290	180.00	.60000-01	602.00	.2693	.1793	.2928	.9420	.9926-02	.1621-01	1.006	6.605	576.3
290	180.00	.70000-01	603.00	.2755	.1717	.3151	.9396	.9505-02	.1745-01	.8550	5.714	587.8
290	180.00	.80000-01	604.00	.2460	.1639	.2814	.9375	.9077-02	.1559-01	.9220	5.907	576.2
290	180.00	.10000+00	605.00	.1462	.1027	.1694	.9339	.5686-02	.9379-02	.6470	4.603	563.9
290	180.00	.15000	606.00	.8150-01	.5760-01	.9910-01	.9287	.3187-02	.5487-02	.3680	2.652	562.3
290	180.00	.20000	607.00	.4420-01	.3210-01	.5310-01	.9278	.1777-02	.2942-02	.2200	1.426	554.1
290	180.00	.21000	608.00	.3590-01	.2610-01	.4310-01	.9278	.1447-02	.2385-02	.1800	1.241	553.2
290	180.00	.22000	609.00	.2480-01	.1800-01	.2980-01	.9278	.9955-03	.1652-02	.1230	.9080	554.6
290	180.00	.30000	610.00	.3410-01	.2480-01	.4090-01	.9278	.1372-02	.2264-02	.1700	1.161	553.6
290	180.00	.35000	611.00	.2870-01	.2100-01	.3430-01	.9278	.1161-02	.1898-02	.1460	.9730	551.7
290	180.00	.36000	612.00	.3020-01	.2200-01	.3610-01	.9278	.1219-02	.1999-02	.1530	1.025	552.2
290	180.00	.37500	614.00	.3160-01	.2310-01	.3790-01	.9278	.1278-02	.2096-02	.1600	1.074	552.3
290	180.00	.38000	615.00	.2910-01	.2120-01	.3480-01	.9278	.1174-02	.1925-02	.1470	.9880	552.2
290	180.00	.38500	616.00	.3150-01	.2320-01	.3800-01	.9278	.1285-02	.2105-02	.1610	1.081	552.2
290	180.00	.39000	617.00	.3470-01	.2540-01	.4140-01	.9278	.1407-02	.2294-02	.1780	1.191	551.1
290	180.00	.39500	618.00	.3510-01	.2560-01	.4190-01	.9278	.1419-02	.2322-02	.1780	1.200	551.9
290	180.00	.40000	619.00	.3560-01	.2600-01	.4260-01	.9278	.1442-02	.2360-02	.1810	1.212	551.9
290	180.00	.40500	620.00	.3640-01	.2660-01	.4360-01	.9278	.1474-02	.2412-02	.1850	1.243	551.9
290	180.00	.41000	621.00	.3820-01	.2790-01	.4570-01	.9278	.1543-02	.2531-02	.1940	1.297	552.3
290	180.00	.41500	622.00	.3670-01	.2750-01	.4310-01	.9278	.1525-02	.2388-02	.2070	1.387	542.3
290	180.00	.42500	624.00	.3660-01	.2660-01	.4390-01	.9278	.1473-02	.2434-02	.1830	1.220	553.7
290	180.00	.43000	625.00	.3560-01	.2590-01	.4260-01	.9278	.1436-02	.2360-02	.1790	1.201	552.8
290	180.00	.44000	626.00	.3370-01	.2450-01	.4030-01	.9278	.1359-02	.2234-02	.1700	1.137	552.8
290	180.00	.44500	627.00	.3360-01	.2450-01	.4030-01	.9278	.1355-02	.2232-02	.1690	1.141	553.2
290	180.00	.45000	628.00	.3440-01	.2500-01	.4130-01	.9278	.1382-02	.2285-02	.1710	1.157	553.8
290	180.00	.45500	629.00	.3130-01	.2280-01	.3740-01	.9278	.1263-02	.2072-02	.1580	1.088	552.3
290	180.00	.46000	630.00	.3130-01	.2280-01	.3750-01	.9278	.1263-02	.2075-02	.1580	1.060	552.6
290	180.00	.47000	631.00	.3100-01	.2250-01	.3720-01	.9278	.1247-02	.2060-02	.1550	1.036	553.7
290	180.00	.48000	632.00	.3170-01	.2310-01	.3810-01	.9278	.1278-02	.2107-02	.1590	1.070	553.4
290	180.00	.49000	633.00	.2930-01	.2130-01	.3520-01	.9278	.1181-02	.1947-02	.1470	.9990	553.3
290	180.00	.50000	634.00	.2370-01	.1730-01	.2840-01	.9278	.9567-03	.1571-02	.1200	.8350	552.6
290	180.00	.55000	635.00	.1830-01	.1320-01	.2190-01	.9278	.7334-03	.1215-02	.9100-01	.5990	554.3
290	180.00	.60000	636.00	.3200-01	.2320-01	.3860-01	.9278	.1282-02	.2137-02	.1570	1.007	555.4
290	180.00	.65000	637.00	.3760-01	.2720-01	.4530-01	.9278	.1506-02	.2510-02	.1840	1.187	555.3
290	180.00	.70000	638.00	.3820-01	.2750-01	.4610-01	.9278	.1522-02	.2554-02	.1840	1.255	556.6
290	180.00	.75000	639.00	.3330-01	.2400-01	.4030-01	.9278	.1329-02	.2232-02	.1610	1.032	556.7
290	180.00	.80000	640.00	.4660-01	.3360-01	.5640-01	.9278	.1859-02	.3123-02	.2250	1.400	556.9
290	180.00	.85000	641.00	.5040-01	.3600-01	.6130-01	.9278	.1991-02	.3394-02	.2360	1.480	559.4
290	180.00	.86000	642.00	.5130-01	.3660-01	.6240-01	.9278	.2026-02	.3456-02	.2400	1.527	559.4
290	180.00	.87000	643.00	.5620-01	.3990-01	.6870-01	.9278	.2212-02	.3804-02	.2590	1.656	560.8

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F19)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
290	180.00	.88000	644.00	.5850-01	.4150-01	.7160-01	.9278	.2299-02	.3963-02	.2680	1.729	561.2
290	180.00	.89000	645.00	.5430-01	.3840-01	.6650-01	.9278	.2127-02	.3680-02	.2470	1.611	561.8
290	180.00	.90000	646.00	.4130-01	.2950-01	.5020-01	.9278	.1635-02	.2782-02	.1940	1.296	559.1
290	180.00	.95000	649.00	.3340-01	.2360-01	.4090-01	.9278	.1309-02	.2264-02	.1520	1.088	561.8
290	191.25	.35000	650.00	.3460-01	.2510-01	.4150-01	.9278	.1389-02	.2301-02	.1720	1.149	554.2
290	191.25	.36000	651.00	.3530-01	.2570-01	.4230-01	.9278	.1421-02	.2341-02	.1770	1.190	553.1
290	191.25	.37000	652.00	.3350-01	.2440-01	.4010-01	.9278	.1351-02	.2221-02	.1690	1.130	552.8
290	191.25	.37500	653.00	.3700-01	.2690-01	.4430-01	.9278	.1489-02	.2454-02	.1850	1.246	553.2
290	191.25	.39000	654.00	.3340-01	.2440-01	.4010-01	.9278	.1350-02	.2218-02	.1690	1.134	552.7
290	191.25	.38500	655.00	.3430-01	.2500-01	.4120-01	.9278	.1384-02	.2280-02	.1720	1.157	553.2
290	191.25	.39000	656.00	.3270-01	.2370-01	.3920-01	.9278	.1315-02	.2169-02	.1630	1.098	553.5
290	191.25	.39500	657.00	.3610-01	.2620-01	.4330-01	.9278	.1452-02	.2397-02	.1800	1.211	553.6
290	191.25	.40000	658.00	.3580-01	.2600-01	.4300-01	.9278	.1441-02	.2383-02	.1780	1.201	554.0
290	191.25	.41000	660.00	.3670-01	.2630-01	.4420-01	.9278	.1474-02	.2446-02	.1820	1.219	554.6
290	191.25	.41500	661.00	.3790-01	.2750-01	.4540-01	.9278	.1524-02	.2516-02	.1890	1.266	553.6
290	191.25	.42000	662.00	.3640-01	.2630-01	.4380-01	.9278	.1457-02	.2426-02	.1780	1.197	555.3
290	191.25	.42500	663.00	.3520-01	.2550-01	.4240-01	.9278	.1412-02	.2349-02	.1730	1.166	555.1
290	191.25	.43000	664.00	.3510-01	.2540-01	.4240-01	.9278	.1405-02	.2346-02	.1720	1.166	555.7
290	191.25	.44000	665.00	.3730-01	.2690-01	.4500-01	.9278	.1490-02	.2493-02	.1810	1.223	556.1
290	191.25	.45000	666.00	.3710-01	.2680-01	.4470-01	.9278	.1483-02	.2474-02	.1810	1.224	555.6
290	191.25	.45500	667.00	.3530-01	.2550-01	.4260-01	.9278	.1413-02	.2360-02	.1720	1.162	555.8
290	191.25	.46000	668.00	.3920-01	.2840-01	.4710-01	.9278	.1571-02	.2611-02	.1930	1.308	554.9
290	191.25	.47000	669.00	.3810-01	.2750-01	.4590-01	.9278	.1525-02	.2540-02	.1870	1.269	555.2
290	191.25	.48000	670.00	.3420-01	.2470-01	.4130-01	.9278	.1368-02	.2286-02	.1670	1.132	555.9
290	191.25	.49000	671.00	.3770-01	.2720-01	.4550-01	.9278	.1504-02	.2519-02	.1830	1.238	556.2
290	191.25	.50000	672.00	.3210-01	.2320-01	.3870-01	.9278	.1287-02	.2143-02	.1580	1.091	555.2
290	191.25	.60000	673.00	.3680-01	.2630-01	.4470-01	.9278	.1457-02	.2477-02	.1730	1.104	558.8
290	191.25	.70000	674.00	.4940-01	.3480-01	.6070-01	.9278	.1927-02	.3359-02	.2210	1.493	562.9
290	191.25	.85000	676.00	.7260-01	.5140-01	.8880-01	.9278	.2848-02	.4917-02	.3310	2.077	561.5
290	191.25	.86000	677.00	.7120-01	.5030-01	.8730-01	.9278	.2784-02	.4833-02	.3210	2.038	562.3
290	191.25	.87000	678.00	.7270-01	.5130-01	.8920-01	.9278	.2841-02	.4939-02	.3270	2.064	562.5
290	191.25	.88000	679.00	.7220-01	.5080-01	.8880-01	.9278	.2813-02	.4916-02	.3220	2.081	563.3
290	191.25	.89000	680.00	.7580-01	.5320-01	.9340-01	.9278	.2947-02	.5171-02	.3350	2.201	564.0
290	191.25	.90000	681.00	.6450-01	.4540-01	.7940-01	.9278	.2513-02	.4396-02	.2870	1.918	563.5
290	191.25	.91000	682.00	.3910-01	.2790-01	.4770-01	.9278	.1543-02	.2641-02	.1810	1.315	560.1
290	191.25	.92600	683.00	.5090-01	.3590-01	.6250-01	.9278	.1986-02	.3461-02	.2280	1.655	562.9
290	191.25	.95000	684.00	.3690-01	.2610-01	.4510-01	.9278	.1447-02	.2496-02	.1680	1.207	561.3
290	197.00	.33000	685.00	.3480-01	.2530-01	.4170-01	.9278	.1399-02	.2310-02	.1710	1.164	553.6
290	197.00	.34000	686.00	.3480-01	.2530-01	.4180-01	.9278	.1400-02	.2315-02	.1720	1.162	553.9
290	197.00	.35000	687.00	.3560-01	.2590-01	.4270-01	.9278	.1434-02	.2364-02	.1780	1.194	553.4
290	197.00	.36000	688.00	.3590-01	.2610-01	.4310-01	.9278	.1446-02	.2388-02	.1790	1.201	553.7
290	197.00	.37000	689.00	.3410-01	.2490-01	.4090-01	.9278	.1378-02	.2265-02	.1720	1.153	552.8
290	197.00	.37500	690.00	.3740-01	.2720-01	.4490-01	.9278	.1503-02	.2486-02	.1860	1.250	553.9

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F19)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
290	197.00	.50000	691.00	.3270-01	.2350-01	.3950-01	.9278	.1302-02	.2188-02	.1570	1.052	556.9
290	197.00	.60000	692.00	.4270-01	.3060-01	.5190-01	.9278	.1695-02	.2871-02	.2030	1.299	558.2
290	197.00	.70000	693.00	.5070-01	.3600-01	.6200-01	.9278	.1991-02	.3434-02	.2320	1.562	561.3
290	197.00	.80000	694.00	.7660-01	.5440-01	.9350-01	.9278	.3014-02	.5178-02	.3530	2.202	560.6
290	197.00	.87000	695.00	.9090-01	.6390-01	.1118	.9278	.3540-02	.6192-02	.4050	2.557	563.4
290	197.00	.92600	696.00	.5710-01	.4030-01	.7010-01	.9278	.2232-02	.3882-02	.2570	1.866	562.6
290	209.80	.15000-01	697.00	.1522	.1082	.1857	.9278	.5992-02	.1028-01	.7030	4.791	560.5
291	209.80	.30000-01	698.00	.2555	.1783	.2586	.9486	.9861-02	.1430-01	1.106	7.457	565.3
291	209.80	.50000-01	699.00	.2453	.1736	.2570	.9445	.9601-02	.1421-01	1.113	7.022	561.6
291	209.80	.70000-01	700.00	.2421	.1661	.2679	.9395	.9182-02	.1482-01	.9900	6.618	569.7
291	209.80	.10000+00	701.00	.1645	.1174	.1891	.9338	.6493-02	.1046-01	.7680	4.867	559.2
291	209.80	.15000	702.00	.8260-01	.5990-01	.9850-01	.9286	.3312-02	.5449-02	.4080	2.909	554.2
291	209.80	.20000	703.00	.4340-01	.3220-01	.5130-01	.9278	.1783-02	.2834-02	.2350	1.567	545.7
291	209.80	.30000	704.00	.3170-01	.2350-01	.3760-01	.9278	.1300-02	.2077-02	.1700	1.205	546.7
291	209.80	.37500	706.00	.3390-01	.2530-01	.3990-01	.9278	.1401-02	.2207-02	.1880	1.291	543.6
291	209.80	.50000	707.00	.2980-01	.2190-01	.3560-01	.9278	.1212-02	.1967-02	.1540	1.055	550.1
291	209.80	.60000	708.00	.4400-01	.3230-01	.5240-01	.9278	.1787-02	.2895-02	.2280	1.453	549.8
291	209.80	.70000	709.00	.4050-01	.2920-01	.4890-01	.9278	.1617-02	.2705-02	.1970	1.247	555.9
291	209.80	.80000	710.00	.5780-01	.4170-01	.6980-01	.9278	.2308-02	.3861-02	.2810	1.741	555.9
291	209.80	.87000	711.00	.6250-01	.4470-01	.7600-01	.9278	.2470-02	.4202-02	.2930	1.841	558.8
291	209.80	.92600	712.00	.4030-01	.2870-01	.4920-01	.9278	.1587-02	.2719-02	.1860	1.347	560.0
291	217.70	.15000-01	713.00	.1626	.1174	.1961	.9278	.6493-02	.1085-01	.7920	5.428	555.6
291	217.70	.30000-01	714.00	.2571	.1793	.2590	.9492	.9912-02	.1432-01	1.109	7.474	565.6
291	217.70	.50000-01	715.00	.2797	.1962	.2921	.9450	.1085-01	.1615-01	1.232	7.971	564.0
291	217.70	.70000-01	716.00	.2581	.1751	.2854	.9399	.9682-02	.1578-01	1.019	6.868	572.2
291	217.70	.10000+00	717.00	.1764	.1255	.2025	.9341	.6942-02	.1120-01	.8150	5.252	560.1
291	217.70	.15000	718.00	.8770-01	.6370-01	.1044	.9288	.3524-02	.5775-02	.4370	3.184	553.7
291	217.70	.20000	719.00	.4750-01	.3540-01	.5600-01	.9278	.1955-02	.3096-02	.2600	1.752	544.8
291	217.70	.30000	720.00	.3350-01	.2480-01	.3970-01	.9278	.1370-02	.2195-02	.1780	1.275	547.4
291	217.70	.35000	721.00	.3590-01	.2690-01	.4230-01	.9278	.1485-02	.2338-02	.1990	1.382	543.5
291	217.70	.37500	722.00	.3490-01	.2610-01	.4100-01	.9278	.1441-02	.2269-02	.1930	1.341	543.5
291	217.70	.50000	723.00	.2960-01	.2190-01	.3510-01	.9278	.1211-02	.1943-02	.1570	1.086	547.7
291	217.70	.70000	725.00	.3780-01	.2750-01	.4530-01	.9278	.1519-02	.2505-02	.1890	1.196	[illegible]
291	217.70	.80000	726.00	.4170-01	.3040-01	.4990-01	.9278	.1679-02	.2761-02	.2100	1.314	552.7
291	217.70	.87000	727.00	.4050-01	.2920-01	.4890-01	.9278	.1616-02	.2703-02	.1970	1.250	555.9
291	217.70	.92600	728.00	.1620-01	.1160-01	.1970-01	.9278	.6419-03	.1088-02	.7700-01	.5540	558.2

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = 10.00 BETA = -3.000 GRIT = 3.000 RN/L = 5.000

•••TEST CONDITIONS•••

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
266	4.520	4.947	10.02	2.900	-16.00	94.80	.3200	664.0	130.5	4.570	2530.	.2054-03
271	4.520	4.952	10.02	2.900	-16.00	94.90	.3200	664.0	130.5	4.572	2530.	.2056-03
272	4.520	4.950	10.02	2.900	-16.00	94.80	.3200	664.0	130.5	4.570	2530.	.2055-03
273	4.520	4.953	10.02	2.900	-16.00	94.90	.3200	664.0	130.5	4.573	2530.	.2056-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
266	.1051-06	.4681-01	.1153-01
271	.1050-06	.4682-01	.1152-01
272	.1050-06	.4681-01	.1152-01
273	.1050-06	.4683-01	.1152-01

•••TEST DATA•••

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
272	.00000	.30000-02	730.00	.4548	.3009	.3401	.9830	.1408-01	.1592-01	1.381	9.391	565.5
272	.00000	.10300-01	731.00	.2759	.1971	.3552	.9221	.9226-02	.1663-01	1.071	7.377	547.4
272	.00000	.15000-01	732.00	.3315	.2338	.4324	.9221	.1095-01	.2024-01	1.232	8.364	551.0
272	.00000	.20000-01	733.00	.5432	.3430	.4040	.9795	.1605-01	.1891-01	1.445	9.790	573.5
272	.00000	.25000-01	734.00	.7942	.4597	.5672	.9775	.2152-01	.2655-01	1.695	11.32	584.7
272	.00000	.30000-01	735.00	.7119	.4383	.5384	.9758	.2052-01	.2520-01	1.771	11.94	577.2
272	.00000	.40000-01	737.00	.5277	.3477	.4217	.9743	.1628-01	.1974-01	1.583	10.23	566.3
272	.00000	.45000-01	738.00	.5559	.3621	.4482	.9725	.1695-01	.2098-01	1.613	10.56	568.4
272	.00000	.60000-01	739.00	.5011	.3126	.4155	.9671	.1464-01	.1945-01	1.291	8.556	575.3
272	.00000	.70000-01	740.00	.4568	.2899	.3950	.9636	.1357-01	.1849-01	1.232	8.222	572.7
272	.00000	.80000-01	741.00	.3747	.2462	.3386	.9602	.1152-01	.1585-01	1.114	8.020	566.8
272	.00000	.10000+00	742.00	.3267	.2203	.3154	.9537	.1031-01	.1476-01	1.051	6.972	561.6
272	.00000	.12500	743.00	.2698	.1778	.2810	.9462	.8323-02	.1315-01	.8100	5.829	566.3
272	.00000	.15000	744.00	.2359	.1607	.2619	.9394	.7525-02	.1226-01	.7840	5.413	559.4
272	.00000	.17500	745.00	.1626	.1139	.1895	.9334	.5330-02	.8871-02	.5900	4.421	552.8
272	.00000	.20000	746.00	.1214	.8720-01	.1464	.9283	.4083-02	.6852-02	.4810	3.440	545.8

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F19)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	R..	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
272	.00000	.21500	747.00	.1037	.7470-01	.1279	.9257	.3495-02	.5988-02	.4140	2.872	545.1
272	.00000	.23000	748.00	.9000-01	.6460-01	.1139	.9234	.3023-02	.5332-02	.3550	2.623	546.2
272	.00000	.24000	749.00	.7550-01	.5420-01	.9660-01	.9221	.2538-02	.4523-02	.2990	2.255	545.8
272	.00000	.25000	750.00	.4680-01	.3350-01	.6010-01	.9221	.1567-02	.2812-02	.1830	1.481	546.7
272	.00000	.30000	751.00	.7950-01	.5720-01	.1017	.9221	.2676-02	.4760-02	.3160	2.075	545.4
272	.00000	.40000	753.00	.7570-01	.5510-01	.9560-01	.9221	.2582-02	.4476-02	.3150	2.033	541.4
272	.00000	.50000	754.00	.6830-01	.4870-01	.8820-01	.9221	.2280-02	.4127-02	.2630	1.721	548.1
272	.00000	.60000	755.00	.7710-01	.5510-01	.9910-01	.9221	.2579-02	.4638-02	.3000	1.925	547.1
272	.00000	.70000	756.00	.6510-01	.4530-01	.8620-01	.9221	.2120-02	.4037-02	.2310	1.517	554.7
272	.00000	.80000	757.00	.6390-01	.4330-01	.8710-01	.9221	.2026-02	.4078-02	.2080	1.295	560.8
272	.00000	.90000	758.00	.2050-01	.1360-01	.2850-01	.9221	.6362-03	.1336-02	.6300-01	.4020	564.8
272	55.000	.22000	759.00	.8590-01	.6230-01	.1078	.9232	.2916-02	.5047-02	.3520	2.623	542.9
272	55.000	.25000	760.00	.4150-01	.2990-01	.5360-01	.9209	.1399-02	.2509-02	.1660	1.301	544.9
272	55.000	.27000	761.00	.5390-01	.3820-01	.7090-01	.9209	.1789-02	.3317-02	.2040	1.515	549.6
272	55.000	.30000	762.00	.7450-01	.5390-01	.9590-01	.9209	.2522-02	.4489-02	.3020	1.820	543.7
272	55.000	.32000	763.00	.7370-01	.5370-01	.9400-01	.9209	.2515-02	.4401-02	.3080	1.828	541.0
272	55.000	.34000	764.00	.7840-01	.5730-01	.9980-01	.9209	.2683-02	.4673-02	.3310	1.969	540.2
272	55.000	.36000	765.00	.7470-01	.5470-01	.9500-01	.9209	.2560-02	.4446-02	.3170	1.913	539.7
272	55.000	.38000	766.00	.6870-01	.5040-01	.8720-01	.9209	.2358-02	.4083-02	.2930	1.789	539.2
272	55.000	.40000	767.00	.7050-01	.5160-01	.8950-01	.9209	.2417-02	.4189-02	.3000	1.882	539.4
272	55.000	.40000	767.00	.7280-01	.5290-01	.9310-01	.9210	.2475-02	.4359-02	.3000	2.239	542.2
272	67.500	.23000	768.00	.4090-01	.2960-01	.5320-01	.9200	.1386-02	.2488-02	.1660	1.293	543.7
272	67.500	.25000	769.00	.5700-01	.4070-01	.7500-01	.9200	.1905-02	.3512-02	.2210	1.612	547.5
272	67.500	.27000	770.00	.4630-01	.3340-01	.6010-01	.9200	.1565-02	.2813-02	.1870	1.161	543.9
272	67.500	.29000	771.00	.6840-01	.4960-01	.8860-01	.9200	.2320-02	.4148-02	.2790	1.710	543.1
272	67.500	.30000	772.00	.6930-01	.5040-01	.8950-01	.9200	.2357-02	.4192-02	.2850	1.737	542.3
272	67.500	.31000	773.00	.7090-01	.5180-01	.9120-01	.9200	.2423-02	.4268-02	.2970	1.794	540.8
272	67.500	.32000	774.00	.6690-01	.4900-01	.8570-01	.9200	.2293-02	.4014-02	.2840	1.717	539.8
272	67.500	.32500	775.00	.6520-01	.4780-01	.8350-01	.9200	.2238-02	.3910-02	.2780	1.685	539.5
272	67.500	.33000	776.00	.6160-01	.4520-01	.7880-01	.9200	.2116-02	.3690-02	.2630	1.597	539.1
272	67.500	.33500	777.00	.6430-01	.4720-01	.8220-01	.9200	.2208-02	.3846-02	.2750	1.671	538.9
272	67.500	.34000	778.00	.6470-01	.4740-01	.8260-01	.9200	.2220-02	.3868-02	.2770	1.683	539.0
272	67.500	.34500	779.00	.6240-01	.4580-01	.7960-01	.9200	.2146-02	.3727-02	.2680	1.638	538.4
272	67.500	.35000	780.00	.6100-01	.4480-01	.7790-01	.9200	.2099-02	.3645-02	.2630	1.607	538.4
272	67.500	.36000	782.00	.6010-01	.4420-01	.7660-01	.9200	.2070-02	.3588-02	.2600	1.585	538.1
272	67.500	.36500	783.00	.5820-01	.4280-01	.7410-01	.9200	.2004-02	.3470-02	.2520	1.545	538.0
272	67.500	.37000	784.00	.5620-01	.4130-01	.7160-01	.9200	.1934-02	.3352-02	.2430	1.502	538.1
272	67.500	.37500	785.00	.5600-01	.4120-01	.7150-01	.9200	.1927-02	.3347-02	.2410	1.497	538.4
272	67.500	.38000	786.00	.6280-01	.4610-01	.8020-01	.9200	.2156-02	.3756-02	.2690	1.671	539.0
272	67.500	.39000	787.00	.6790-01	.4980-01	.8680-01	.9200	.2333-02	.4052-02	.2910	1.825	538.9
272	67.500	.40000	788.00	.5470-01	.3940-01	.7140-01	.9200	.1843-02	.3342-02	.2180	1.400	545.2
272	67.500	.50000	789.00	.6190-01	.4490-01	.8000-01	.9200	.2102-02	.3743-02	.2550	1.674	542.5
272	67.500	.60000	790.00	.5180-01	.3670-01	.6880-01	.9200	.1716-02	.3221-02	.1950	1.374	550.0
272	67.500	.70000	791.00									

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
272	67.500	.80000	792.00	.6060-01	.4300-01	.8040-01	.9200	.2011-02	.3763-02	.2290	1.438	549.6
272	67.500	.90000	793.00	.2420-01	.1670-01	.3330-01	.9200	.7810-03	.1537-02	.8300-01	.5340	557.0
272	78.000	.27000	794.00	.5110-01	.3670-01	.6740-01	.9193	.1717-02	.3154-02	.2020	1.440	546.0
272	78.000	.29000	795.00	.4310-01	.3130-01	.5610-01	.9193	.1464-02	.2626-02	.1770	1.095	542.5
273	78.000	.30000	796.00	.6250-01	.4570-01	.8060-01	.9193	.2141-02	.3772-02	.2650	1.614	539.7
273	78.000	.31000	797.00	.5950-01	.4370-01	.7640-01	.9193	.2046-02	.3577-02	.2560	1.559	538.4
273	78.000	.32000	798.00	.5720-01	.4210-01	.7330-01	.9193	.1971-02	.3431-02	.2480	1.502	537.8
273	78.000	.32500	799.00	.5990-01	.4430-01	.7660-01	.9193	.2072-02	.3589-02	.2630	1.596	536.8
273	78.000	.33000	800.00	.6070-01	.4480-01	.7760-01	.9193	.2096-02	.3636-02	.2650	1.611	537.1
273	78.000	.33500	801.00	.5860-01	.4330-01	.7470-01	.9193	.2029-02	.3497-02	.2590	1.573	536.0
273	78.000	.34000	802.00	.5960-01	.4400-01	.7620-01	.9193	.2061-02	.3567-02	.2620	1.589	536.7
273	78.000	.34500	803.00	.5550-01	.4110-01	.7060-01	.9193	.1924-02	.3307-02	.2460	1.502	535.5
273	78.000	.35000	804.00	.5690-01	.4220-01	.7250-01	.9193	.1974-02	.3397-02	.2520	1.539	535.7
273	78.000	.35500	805.00	.5540-01	.4100-01	.7040-01	.9193	.1922-02	.3298-02	.2470	1.505	535.2
273	78.000	.36000	806.00	.5590-01	.4150-01	.7110-01	.9193	.1942-02	.3329-02	.2500	1.526	535.0
273	78.000	.37000	808.00	.5240-01	.3880-01	.6660-01	.9193	.1818-02	.3120-02	.2330	1.435	535.2
273	78.000	.37500	809.00	.5570-01	.4130-01	.7100-01	.9193	.1933-02	.3324-02	.2470	1.520	535.6
273	78.000	.38000	810.00	.5080-01	.3770-01	.6460-01	.9193	.1765-02	.3025-02	.2270	1.403	535.0
273	78.000	.39000	811.00	.5680-01	.4200-01	.7250-01	.9193	.1967-02	.3395-02	.2510	1.552	536.2
273	78.000	.40000	812.00	.4170-01	.3090-01	.5310-01	.9193	.1446-02	.2487-02	.1850	1.146	535 6
266	90.000	.40000-01	985.00	.3590	.2411	.3242	.9610	.1129-01	.1518-01	1.140	7.359	562.8
266	90.000	.50000-01	986.00	.4372	.2921	.4071	.9575	.1367-01	.1906-01	1.368	8.770	563.9
266	90.000	.60000-01	987.00	.4426	.2812	.4229	.9541	.1316-01	.1980-01	1.198	7.785	572.8
266	90.000	.80000-01	989.00	.3372	.2240	.3453	.9477	.1049-01	.1617-01	1.036	7.277	565.0
266	90.000	.15000	991.00	.1452	.1010	.1762	.9299	.4727-02	.8250-02	.5150	3.768	554.8
273	90.000	.20000	813.00	.1290-01	.9400-02	.1660-01	.9192	.4402-03	.7791-03	.5400-01	.3960	540.3
273	90.000	.24000	814.00	.4510-01	.3300-01	.5850-01	.9187	.1545-02	.2739-02	.1910	1.554	539.7
273	90.000	.27000	815.00	.4230-01	.3080-01	.5520-01	.9187	.1442-02	.2587-02	.1760	1.253	541.6
273	90.000	.29000	816.00	.4280-01	.3140-01	.5550-01	.9187	.1469-02	.2598-02	.1820	1.137	539.4
273	90.000	.30000	818.00	.6150-01	.4500-01	.7980-01	.9187	.2110-02	.3735-02	.2620	1.605	539.6
273	90.000	.31000	819.00	.5350-01	.3940-01	.6910-01	.9187	.1845-02	.3234-02	.2320	1.412	537.9
273	90.000	.32000	820.00	.5330-01	.3930-01	.6910-01	.9187	.1855-02	.3234-02	.2380	1.446	536.0
273	90.000	.32500	821.00	.5150-01	.3810-01	.6610-01	.9187	.1784-02	.3033-02	.2280	1.379	536.0
273	90.000	.33000	822.00	.4960-01	.3660-01	.6330-01	.9187	.1725-02	.2965-02	.2230	1.354	534.5
273	90.000	.33500	823.00	.4980-01	.3690-01	.6330-01	.9187	.1728-02	.2964-02	.2230	1.356	534.2
273	90.000	.34000	824.00	.4980-01	.3690-01	.6330-01	.9187	.1741-02	.2973-02	.2270	1.381	533.3
273	90.000	.34500	825.00	.4930-01	.3720-01	.6350-01	.9187	.1697-02	.2916-02	.2190	1.333	534.4
273	90.000	.35000	826.00	.4880-01	.3620-01	.6230-01	.9187	.1674-02	.2876-02	.2160	1.311	534.5
273	90.000	.36000	828.00	.4810-01	.3570-01	.6140-01	.9187	.1647-02	.2827-02	.2130	1.296	534.2
273	90.000	.36500	829.00	.4730-01	.3520-01	.6040-01	.9187	.1671-02	.2850-02	.2180	1.332	533.1
273	90.000	.37000	830.00	.4790-01	.3570-01	.6030-01	.9187	.1615-02	.2765-02	.2090	1.285	533.8
273	90.000	.37500	831.00	.4630-01	.3450-01	.5900-01	.9187	.1598-02	.2733-02	.2080	1.274	533.6
273	90.000	.38000	832.00	.4580-01	.3410-01	.5840-01	.9187	.1594-02	.2562-02	.1950	1.109	534.1
273	90.000	.39000	834.00	.4690-01	.3190-01	.5470-01	.9187	.1494-02	.2562-02	.1950	1.109	534.1

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F19)

IHN1(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
273	90.000	.40000	834.00	.4300-01	.3200-01	.5480-01	.9187	.1496-02	.2567-02	.1940	1.204	534.2
273	90.000	.50000	835.00	.4240-01	.3100-01	.5520-01	.9187	.1453-02	.2583-02	.1790	1.130	540.1
273	90.000	.60000	836.00	.3890-01	.2860-01	.5020-01	.9187	.1341-02	.2348-02	.1690	1.130	537.7
273	90.000	.70000	837.00	.3520-01	.2550-01	.4620-01	.9187	.1194-02	.2162-02	.1440	1.015	543.0
273	90.000	.80000	838.00	.3490-01	.2540-01	.4560-01	.9187	.1191-02	.2135-02	.1450	.9050	541.5
273	90.000	.90000	839.00	.1800-01	.1280-01	.2420-01	.9187	.6002-03	.1131-02	.6900-01	.4410	548.6
273	112.50	.23000	840.00	.3350-01	.2480-01	.4300-01	.9183	.1160-02	.2014-02	.1480	1.203	535.7
273	112.50	.25000	841.00	.1700-01	.1260-01	.2190-01	.9183	.5888-03	.1027-02	.7500-01	.5830	536.6
273	112.50	.30000	843.00	.3590-01	.2650-01	.4640-01	.9183	.1241-02	.2175-02	.1570	.9360	537.3
273	112.50	.33000	844.00	.3820-01	.2830-01	.4890-01	.9183	.1327-02	.2292-02	.1710	1.036	534.9
273	112.50	.35000	845.00	.3460-01	.2580-01	.4410-01	.9183	.1206-02	.2067-02	.1570	.9690	533.4
273	112.50	.37000	846.00	.3390-01	.2530-01	.4340-01	.9183	.1184-02	.2031-02	.1540	.9550	533.5
273	112.50	.40000	847.00	.3110-01	.2310-01	.3960-01	.9183	.1086-02	.1853-02	.1420	.8930	532.6
273	112.50	.45000	848.00	.3020-01	.2250-01	.3850-01	.9183	.1054-02	.1801-02	.1380	.8720	532.8
273	112.50	.50000	849.00	.2480-01	.1830-01	.3200-01	.9183	.8555-03	.1499-02	.1080	.6980	537.3
273	112.50	.55000	850.00	.1710-01	.1260-01	.2220-01	.9183	.5912-03	.1038-02	.7400-01	.5000	537.7
273	112.50	.60000	851.00	.2460-01	.1820-01	.3160-01	.9183	.8542-03	.1479-02	.1100	.7390	535.3
273	112.50	.65000	852.00	.2600-01	.1930-01	.3350-01	.9183	.9019-03	.1568-02	.1150	.7880	535.9
273	112.50	.70000	853.00	.1970-01	.1450-01	.2560-01	.9183	.6769-03	.1200-02	.8400-01	.5930	539.2
273	112.50	.75000	854.00	.1470-01	.1070-01	.1930-01	.9183	.4998-03	.9020-03	.6100-01	.3950	542.0
273	112.50	.80000	855.00	.2150-01	.1570-01	.2790-01	.9183	.7366-03	.1307-02	.9100-01	.5970	539.4
273	112.50	.90000	856.00	.2140-01	.1540-01	.2850-01	.9183	.7226-03	.1334-02	.8600-01	.5550	545.2
273	125.40	.84000	857.00	.2600-01	.1900-01	.3390-01	.9183	.8892-03	.1587-02	.1100	.6800	540.3
273	125.40	.85000	858.00	.2540-01	.1850-01	.3330-01	.9183	.8682-03	.1558-02	.1060	.6620	541.2
273	125.40	.86000	859.00	.2970-01	.2160-01	.3890-01	.9183	.1012-02	.1824-02	.1230	.7740	541.8
273	125.40	.87000	860.00	.3230-01	.2340-01	.4240-01	.9183	.1098-02	.1984-02	.1330	.8390	542.2
273	125.40	.88000	861.00	.3740-01	.2700-01	.4950-01	.9183	.1263-02	.2316-02	.1510	.9480	544.3
273	125.40	.89000	862.00	.3940-01	.2840-01	.5230-01	.9183	.1329-02	.2449-02	.1580	.9970	545.0
273	125.40	.90000	863.00	.3780-01	.2710-01	.5050-01	.9183	.1270-02	.2364-02	.1490	.9470	546.4
273	125.40	.91000	864.00	.2790-01	.2000-01	.3710-01	.9183	.9377-03	.1736-02	.1110	.8040	545.7
273	125.40	.92000	865.00	.3810-01	.2700-01	.5140-01	.9183	.1266-02	.2406-02	.1450	1.047	549.2
273	125.40	.80000	866.00	.2170-01	.1590-01	.2830-01	.9183	.7440-03	.1324-02	.9200-01	.5810	539.8
273	129.30	.81000	867.00	.2210-01	.1620-01	.2880-01	.9183	.7583-03	.1348-02	.9400-01	.5890	539.7
273	129.30	.82000	868.00	.2300-01	.1690-01	.3000-01	.9183	.7899-03	.1405-02	.9800-01	.6130	539.7
273	129.30	.83000	869.00	.2450-01	.1790-01	.3200-01	.9183	.8393-03	.1499-02	.1030	.6500	540.4
273	135.00	.40000-01	870.00	.2771	.1933	.2814	.9482	.9054-02	.1318-01	.9940	6.370	553.8
273	135.00	.50000-01	871.00	.2979	.2086	.3115	.9449	.9768-02	.1458-01	1.081	6.890	552.9
273	135.00	.70000-01	873.00	.2798	.1903	.3109	.9389	.8909-02	.1456-01	.9300	6.291	559.1
273	135.00	.10000+00	875.00	.1677	.1204	.1965	.9313	.5638-02	.9200-02	.6630	4.356	545.9
273	135.00	.15000	876.00	.8580-01	.6240-01	.1082	.9225	.2921-02	.5065-02	.3550	2.604	542.1
273	135.00	.20000	877.00	.3870-01	.2880-01	.4950-01	.9185	.1347-02	.2320-02	.1740	1.180	534.5
273	135.00	.35000	878.00	.2790-01	.2090-01	.3560-01	.9183	.9771-03	.1668-02	.1280	.8010	532.6
273	135.00	.40000	879.00	.2220-01	.1660-01	.2830-01	.9183	.7794-03	.1324-02	.1030	.6560	531.3

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OF POOR QUALITY

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
273	135.00	.50000	880.00	.1160-01	.8600-02	.1490-01	.9183	.4022-03	.6992-03	.5100-01	.3540	535.9
273	135.00	.55000	881.00	.5800-02	.4300-02	.7500-02	.9183	.2016-03	.3529-03	.2600-01	.1710	537.1
273	135.00	.60000	882.00	.1240-01	.9200-02	.1590-01	.9183	.4299-03	.7460-03	.5500-01	.3720	535.6
273	135.00	.65000	883.00	.1340-01	.9900-02	.1720-01	.9183	.4644-03	.8038-03	.6000-01	.4090	535.2
273	135.00	.70000	884.00	.140_ 01	.1030-01	.1870-01	.9183	.4805-03	.8579-03	.5900-01	.4220	540.3
273	135.00	.75000	885.00	.1620-01	.1180-01	.2130-01	.9183	.5507-03	.9979-03	.6700-01	.4210	542.6
273	135.00	.80000	886.00	.2370-01	.1730-01	.3090-01	.9183	.8085-03	.1447-02	.9900-01	.6260	540.7
273	135.00	.84000	887.00	.7590-01	.5980-01	.9460-01	.9130	.2678-02	.4234-02	.0000	.0000	544.7
266	135.00	.85000	888.00	.4020-01	.2680-01	.5370-01	.9183	.1349-02	.2514-02	.1580	1.001	546.8
266	135.00	.87000	890.00	.3990-01	.2770-01	.5220-01	.9183	.1299-02	.2444-02	.1500	.9540	548.1
266	135.00	.88000	891.00	.4390-01	.3110-01	.5920-01	.9183	.1458-02	.2773-02	.1670	1.065	549.5
266	135.00	.89000	892.00	.4520-01	.3200-01	.6120-01	.9183	.1499-02	.2850-02	.1710	1.108	550.1
266	135.00	.91000	894.00	.2730-01	.1940-01	.3700-01	.9183	.9060-03	.1730-02	.1030	.7510	550.0
266	135.00	.92600	895.00	.4170-01	.2950-01	.5670-01	.9183	.1379-02	.2656-02	.1560	1.129	551.0
266	135.00	.95000	896.00	.4880-01	.3440-01	.6540-01	.9183	.1610-02	.3106-02	.1810	1.306	551.3
266	142.30	.42000	897.00	.1760-01	.1230-01	.2300-01	.9183	.6035-03	.1077-02	.7400-01	.4600	540.5
266	142.30	.43500	898.00	.1750-01	.1280-01	.2270-01	.9183	.6008-03	.1065-02	.7500-01	.4690	539.4
266	142.30	.45000	899.00	.1620-01	.1180-01	.2110-01	.9183	.5530-03	.9866-03	.6800-01	.4480	540.4
266	142.30	.50000	900.00	.1060-01	.7700-02	.1400-01	.9183	.3615-03	.6558-03	.4400-01	.2920	543.0
266	142.30	.60000	901.00	.1260-01	.9300-02	.1690-01	.9183	.4398-03	.7901-03	.5300-01	.3520	542.6
266	142.30	.70000	902.00	.2450-01	.1760-01	.3280-01	.9183	.8255-03	.1536-02	.9700-01	.6610	546.6
266	142.30	.80000	903.00	.3470-01	.2490-01	.4630-01	.9183	.1164-02	.2167-02	.1360	.6670	546.7
266	142.30	.87000	904.00	.4150-01	.2960-01	.5590-01	.9183	.1384-02	.2615-02	.1600	1.007	548.6
266	154.98	.42000	905.00	.2010-01	.1480-01	.2620-01	.9183	.6908-03	.1227-02	.8600-01	.5540	539.8
266	154.98	.43500	906.00	.1700-01	.1250-01	.2220-01	.9183	.5834-03	.1040-02	.7200-01	.4690	540.3
266	154.98	.45000	907.00	.1530-01	.1120-01	.2000-01	.9183	.5240-03	.9341-03	.6500-01	.4240	540.3
266	154.98	.50000	908.00	.1020-01	.7400-02	.1340-01	.9183	.3452-03	.6254-03	.4200-01	.3000	542.8
266	154.98	.60000	913.00	.5030-01	.3530-01	.6790-01	.9183	.1654-02	.3178-02	.1870	1.358	550.7
266	154.98	.94500	914.00	.0940-01	.4130-01	.7960-01	.9183	.1932-02	.3711-02	.2180	1.570	550.7
266	157.50	.70000-01	915.00	.2583	.1742	.3021	.9350	.8157-02	.1414-01	.8320	5.741	561.8
266	157.50	.80000-01	919.00	.2324	.1576	.2788	.9325	.7378-02	.1305-01	.7610	5.159	560.7
266	157.50	.10000+00	920.00	.1619	.8760-01	.1478	.9230	.4883-02	.6918-02	.4760	3.180	547.2
266	157.50	.20000	922.00	.2660-01	.1940-01	.3380-01	.9183	.9062-03	.1583-02	.1150	.7700	537.0
266	157.50	.42000	923.00	.1910-01	.1390-01	.2420-01	.9183	.6523-03	.9435-03	.8000-01	.4340	539.4
266	157.50	.43500	924.00	.1770-01	.1010-01	.1780-01	.9183	.4705-03	.8312-03	.5000-01	.3960	538.9
266	157.50	.45000	925.00	.1310-01	.9500-02	.1700-01	.9183	.4504-03	.7965-03	.5600-01	.3730	539.0
266	157.50	.85000	926.00	.5190-01	.2080-01	.4470-01	.9183	.1069-02	.1997-02	.1250	.8060	547.2
266	157.50	.86000	927.00	.3520-01	.2560-01	.4710-01	.9183	.1179-02	.2206-02	.1370	.8910	547.3
266	157.50	.87000	928.00	.3480-01	.2530-01	.4670-01	.9183	.1161-02	.2187-02	.1340	.8730	548.2
266	157.50	.88000	929.00	.3620-01	.2580-01	.4880-01	.9183	.1207-02	.2284-02	.1390	.9070	548.8
266	157.50	.89000	930.00	.4020-01	.2840-01	.5460-01	.9183	.1329-02	.2554-02	.1500	.9880	550.7
266	157.50	.90000	931.00	.3500-01	.2520-01	.4830-01	.9183	.1180-02	.2261-02	.1340	.9010	550.4
266	157.50	.91000	932.00	.2730-01	.1930-01	.3700-01	.9183	.9023-03	.1732-02	.1020	.7460	550.6

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F19)

(IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
266	157.50	.92600	933.00	.4330-01	.3070-01	.5870-01	.9183	.1435-02	.2750-02	.1630	1.186	550.4
266	163.12	.41500	934.00	.1390-01	.1030-01	.1800-01	.9183	.4808-03	.8433-03	.6100-01	.3950	537.7
266	163.12	.42000	935.00	.1490-01	.1090-01	.1930-01	.9183	.5110-03	.9040-03	.6400-01	.4190	539.1
266	163.12	.43000	937.00	.1380-01	.1010-01	.1800-01	.3183	.4745-03	.8409-03	.5900-01	.3890	539.3
266	163.12	.44000	938.00	.1390-01	.1020-01	.1800-01	.9183	.4754-03	.8439-03	.5900-01	.3880	539.6
266	163.12	.44500	939.00	.1310-01	.9600-02	.1710-01	.9183	.4499-03	.7984-03	.5600-01	.3730	539.6
266	163.12	.45000	940.00	.1310-01	.9600-02	.1700-01	.9183	.4487-03	.7968-03	.5600-01	.3710	539.7
266	163.12	.50000	941.00	.9800-02	.7100-02	.1290-01	.9183	.3339-03	.6017-03	.4100-01	.2770	542.0
266	163.12	.60000	942.00	.1530-01	.1110-01	.2010-01	.9183	.5196-03	.9398-03	.6300-01	.4070	542.5
266	163.12	.70000	943.00	.1610-01	.1170-01	.2140-01	.9183	.5454-03	.1000-02	.6500-01	.4470	544.5
266	163.12	.80000	944.00	.2610-01	.1870-01	.3490-01	.9183	.8747-03	.1632-02	.1020	.6670	546.9
266	169.00	.35000	945.00	.8000-02	.5900-02	.1030-01	.9183	.2768-03	.4806-03	.3500-01	.2260	535.9
266	168.00	.36000	946.00	.8800-02	.6500-02	.1130-01	.9183	.3065-03	.5301-03	.3900-01	.2520	535.2
266	168.00	.37000	947.00	.1030-01	.7600-02	.1330-01	.9183	.3575-03	.6242-03	.4500-01	.2910	536.9
266	168.00	.37500	949.00	.1060-01	.7800-02	.1370-01	.9183	.3684-03	.6400-03	.4600-01	.2980	537.0
266	168.00	.38500	950.00	.1130-01	.8300-02	.1450-01	.9183	.3893-03	.6793-03	.4900-01	.3200	535 8
266	168.00	.39000	951.00	.1270-01	.9400-02	.1640-01	.9183	.4403-03	.7697-03	.5600-01	.3640	537.1
266	168.00	.39500	952.00	.1250-01	.9200-02	.1620-01	.9183	.4324-03	.7578-03	.5500-01	.3510	537.5
266	168.00	.40000	953.00	.1290-01	.9500-02	.1680-01	.9183	.4458-03	.7843-03	.5600 01	.3660	538.2
266	168.00	.40500	954.00	.1340-01	.9900-02	.1740-01	.9183	.4619-03	.8139-03	.5800-01	.3790	538.4
266	168.00	.41000	955.00	.1350-01	.9900-02	.1730-01	.9183	.4631-03	.8183-03	.5800-01	.3790	538.9
266	168.00	.41500	956.00	.1400-01	1030-01	.1820-01	.9183	.4824-03	.8517-03	.6000-01	.3960	538.8
266	168.00	.42000	957.00	.1400-01	.1030-01	.1820-01	.9183	.4818-03	.8507-03	.6000-01	.3970	538.8
266	168.00	.42500	958.00	.1370-01	.1010-01	.1780-01	.9183	.4726-03	.8353-03	.5900 01	.3890	538.9
266	168.00	.43000	959.00	.1430-01	.1050-01	.1860-01	.9183	.4910-03	.8700-03	.6100-01	.4010	539.3
266	168.00	.44000	960.00	.1540-01	.1130-01	.2000-01	.9183	.5275-03	.9348-03	.6600-01	.4330	539.3
266	168.00	.44500	961.00	.1410-01	.1030-01	.1830-01	.9183	.4825-03	.8566-03	.6000-01	.3950	539.7
266	168.00	.45000	963.00	.1370-01	.1000-01	.1780-01	.9183	.4681-03	.8315-03	.5800-01	.3850	539.7
266	168.00	.46000	964.00	.1360-01	.1000-01	.1780-01	.9183	.4665-03	.8332-03	.5700-01	.3830	540.6
266	168.00	.47000	965.00	.1380-01	.1010-01	.1810-01	.9183	.4736-03	.8464-03	.5800-01	.3900	540.7
266	168.00	.48000	966.00	.1410-01	.1030-01	.1850-01	.9183	.4812-03	.8644-03	.5900-01	.3970	541.5
266	168.00	.49000	967.00	.1660-01	.1210-01	.2170-01	.9183	.5673-03	.1017-02	.7000-01	.4690	541.2
266	168.00	.85000	968.00	.3420-01	.2450-01	.4570-01	.9183	.1145-02	.2138-02	.1340	.8670	547.1
266	168.00	.86000	969.00	.3260-01	.2340-01	.4400-01	.9183	.1097-02	.2061-02	.1270	.8270	547.9
266	168.00	.87000	970.00	.3540-01	.2520-01	.4750-01	.9183	.1180-02	.2224-02	.1360	.8890	546 .
266	168.00	.88000	971.00	.3920-01	.2780-01	.5300-01	.9183	.1300-02	.2480-02	.1480	.9690	549.8
266	168.00	.89000	972.00	.4440-01	.3140-01	.6020-01	.9183	.1471-02	.2819-02	.1670	1.106	550.4
266	168.00	.90000	973.00	.3600-01	.2550-01	.4870-01	.9183	.1194-02	.2279-02	.1360	.9250	549.9
266	168.00	.91000	974.00	.2720-01	.1920-01	.3680-01	.9183	.9003-03	.1721-02	.1020	.7450	550.1
266	168.00	.92600	975.00	.4240-01	.2990-01	.5750-01	.9183	.1401-02	.2692-02	.1580	1.145	550.8
266	168.00	.95000	976.00	.5760-01	.4080-01	.7810-01	.9183	.1909-02	.3655-02	.2170	1.558	550.3
266	180.00	.20000-01	982.00	.9830-01	.7070-01	.1015	.9460	.3312-02	.4752-02	.3920	2.725	545.5
266	180.00	.25000-01	983.00	.1460	.1039	.1533	.9441	.4865-02	.7176-02	.5600	3.865	548.7

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F19)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
266	180.00	.30000-01	984.00	.2195	.1511	.2352	.9426	.7073-02	.1101-01	.7530	5.145	557.3
271	180.00	.40000-01	600.00	.2119	.1439	.2309	.9413	.6740-02	.1081-01	.6970	4.454	560.1
271	180.00	.50000-01	601.00	.2311	.1562	.2605	.9382	.7315-02	.1220-01	.7490	4.797	561.1
271	180.00	.60000-01	602.00	.2066	.1373	.2422	.9354	.6430-02	.1134-01	.6370	4.202	564.6
271	180.00	.70000-01	603.00	.2453	.1598	.3007	.9328	.7484-02	.1408-01	.7130	4.812	568.3
271	180.00	.80000-01	604.00	.2345	.1532	.2960	.9304	.7174-02	.1386-01	.6870	4.421	567.8
271	180.00	.10000+00	605.00	.1047	.7290-01	.1321	.9263	.3415-02	.6184-02	.3730	2.669	554.3
271	180.00	.15000	606.00	.4980-01	.3520-01	.6650-01	.9196	.1648-02	.3115-02	.1860	1.353	550.4
271	180.00	.20000	607.00	.2160-01	.1560-01	.2860-01	.9183	.7323-03	.1339-02	.8800-01	.5720	543.9
271	180.00	.21000	608.00	.1110-01	.8100-02	.1470-01	.9183	.3772-03	.6895-03	.4500-01	.3120	543.9
271	180.00	.22000	609.00	.5700-02	.4100-02	.7600-02	.9183	.1932-03	.3556-03	.2300-01	.1710	544.9
271	180.00	.30000	610.00	.3000-02	.2200-02	.3900-02	.9183	.1008-03	.1812-03	.1200-01	.8400-01	541.4
271	180.00	.35000	612.00	.3100-02	.2200-02	.4000-02	.9183	.1045-03	.1880-03	.1300-01	.8600-01	541.5
271	180.00	.37500	614.00	.4500-02	.3300-02	.6000-02	.9183	.1544-03	.2789-03	.1900-01	.1260	542.1
271	180.00	.38000	615.00	.5600-02	.4100-02	.7400-02	.9183	.1920-03	.3463-03	.2300-01	.1570	541.9
271	180.00	.38500	616.00	.5300-02	.3900-02	.7000-02	.9183	.1808-03	.3268-03	.2200-01	.1480	542.2
271	180.00	.39000	617.00	.6100-02	.4400-02	.7900-02	.9183	.2069-03	.3721-03	.2500-01	.1700	541.4
271	180.00	.39500	618.00	.7400-02	.5400-02	.9800-02	.9183	.2532-03	.4584-03	.3100-01	.2070	542.5
271	180.00	.40000	619.00	.1050-01	.7600-02	.1380-01	.9183	.3551-03	.6443-03	.4300-01	.2880	542.8
271	180.00	.40500	620.00	.1270-01	.9200-02	.1670-01	.9183	.4312-03	.7819-03	.5200-01	.3510	542.7
271	180.00	.41000	621.00	.1610-01	.1170-01	.2120-01	.9183	.5465-03	.9934-03	.6600-01	.4430	543.1
271	180.00	.41500	622.00	.1890-01	.1360-01	.2470-01	.9183	.6368-03	.1156-02	.7700-01	.5160	542.8
271	180.00	.42000	624.00	.1480-01	.1070-01	.1960-01	.9183	.5020-03	.9177-03	.6000-01	.4030	543.9
271	180.00	.42500	625.00	.1480-01	.1080-01	.1960-01	.9183	.5034-03	.9166-03	.6100-01	.4080	543.3
271	180.00	.43000	626.00	.1610-01	.1170-01	.2120-01	.9183	.5460-03	.9938-03	.6600-01	.4440	542.8
271	180.00	.44000	627.00	.1700-01	.1230-01	.2240-01	.9183	.5744-03	.1048-02	.6900-01	.4680	543.6
271	180.00	.44500	628.00	.1640-01	.1180-01	.2170-01	.9183	.5541-03	.1018-02	.6600-01	.4480	544.6
271	180.00	.45000	629.00	.1760-01	.1280-01	.2320-01	.9183	.5974-03	.1087-02	.7200-01	.4960	543.2
271	180.00	.45500	630.00	.1820-01	.1320-01	.2400-01	.9183	.6186-03	.1125-02	.7400-01	.5020	543.2
271	180.00	.46000	631.00	.1850-01	.1330-01	.2450-01	.9183	.6240-03	.1147-02	.7400-01	.4990	544.6
271	180.00	.47000	632.00	.1860-01	.1340-01	.2450-01	.9183	.6273-03	.1149-02	.7500-01	.5070	544.2
271	180.00	.48000	633.00	.1780-01	.1280-01	.2350-01	.9183	.6009-03	.1102-02	.7200-01	.4900	544.3
271	180.00	.49000	634.00	.1520-01	.1100-01	.2010-01	.9183	.5152-03	.9409-03	.6200-01	.4330	543.6
271	180.00	.50000	635.00	.1320-01	.9500-02	.1760-01	.9183	.4427-03	.8226-03	.5200-01	.3450	546.1
271	180.00	.55000	636.00	.2130-01	.1530-01	.2830-01	.9183	.7160-03	.1327-02	.8400-01	.5440	545.8
271	180.00	.60000	637.00	.2260-01	.1630-01	.3010-01	.9183	.7614-03	.1407-02	.9000-01	.5820	545.4
271	180.00	.65000	638.00	.1880-01	.1350-01	.2510-01	.9183	.6322-03	.1176-02	.7400-01	.5070	546.3
271	180.00	.70000	639.00	.1420-01	.1020-01	.1910-01	.9183	.4759-03	.8928-03	.5500-01	.3550	547.5
271	180.00	.75000	640.00	.2540-01	.1810-01	.3390-01	.9183	.8493-03	.1588-02	.9900-01	.6200	547.0
271	180.00	.80000	642.00	.3580-01	.2540-01	.4830-01	.9183	.1188-02	.2264-02	.1360	.8690	549.4
271	180.00	.86000	643.00	.3990-01	.2820-01	.5420-01	.9183	.1319-02	.2540-02	.1490	.9580	550.8
271	180.00	.87000	644.00	.4520-01	.3180-01	.6160-01	.9183	.1491-02	.2883-02	.1670	1.087	551.2
271	180.00	.88000	645.00	.4310-01	.3030-01	.5900-01	.9183	.1420-02	.2760-02	.1580	1.040	551.9
271	180.00	.89000	645.00	.4310-01	.3030-01	.5900-01	.9183	.1420-02	.2760-02	.1580	1.040	551.9

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F19)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
271	180.00	.90000	646.00	.3900-01	.2750-01	.5300-01	.9183	.1290-02	.2483-02	.1450	.9760	550.8
271	180.00	.95000	649.00	.4660-01	.3270-01	.6350-01	.9183	.1533-02	.2975-02	.1720	1.236	551.7
271	191.25	.35000	650.00	.4900-02	.3600-02	.6500-02	.9183	.1675-03	.3041-03	.2000-01	..360	542.8
271	191.25	.36000	651.00	.4000-02	.2900-02	.5200-02	.9183	.1356-03	.2451-03	.1600-01	.1110	542.2
271	191.25	.37000	652.00	.6000-02	.4400-02	.7900-02	.9183	.2046-03	.3689-03	.2500-01	.1680	541.8
271	191.25	.37500	653.00	.5600-02	.4100-02	.7400-02	.9183	.1899-03	.3443-03	.2300-01	.1550	542.6
271	191.25	.38000	654.00	.6200-02	.4500-02	.8200-02	.9183	.2118-03	.3822-03	.2600-01	.1740	541.9
271	191.25	.38500	655.00	.5800-02	.4200-02	.7600-02	.9183	.1974-03	.3577-03	.2400-01	.1610	542.5
271	191.25	.39000	656.00	.6500-02	.4700-02	.8600-02	.9183	.2222-03	.4026-03	.2700-01	.1820	542.6
271	191.25	.39500	657.00	.6900-02	.5000-02	.9100-02	.9183	.2344-03	.4249-03	.2800-01	.1920	542 6
271	191.25	.40000	658.00	.7200-02	.5200-02	.9500-02	.9183	.2438-03	.4434-03	.2930-01	.1990	543.1
271	191.25	.40500	659.00	.9200-02	.6700-02	.1220-01	.9183	.3119-03	.5693-03	.3700-01	.2530	543.6
271	191.25	.41000	660.00	.8600-02	.6200-02	.1130-01	.9183	.2904-03	.5295-03	.3500-01	.2350	543.5
271	191.25	.41500	661.00	.1180-01	.8600-02	.1560-01	.9183	.4017-03	.7334-03	.4800-01	.3260	543.1
271	191.25	.42000	662.00	.1070-01	.7700-02	.1410-01	.9183	.3608-03	.6621-03	.4300-01	.2900	544.4
271	191.25	.42500	663.00	.1200-01	.8700-02	.1580-01	.9183	.4054-03	.7410-03	.4900-01	.3290	543.9
271	191.25	.43000	664.00	.1310-01	.9500-02	.1730-01	.9183	.4431-03	.8122-03	.5300-01	.3610	544.3
271	191.25	.44000	665.00	.1490-01	.1070-01	.1970-01	.9183	.5020-03	.9240-03	.6000-01	.4050	544.9
271	191.25	.45000	666.00	.1700-01	.1230-01	.2260-01	.9183	.5742-03	.1058-02	.6800-01	.4620	545.1
271	191.25	.45500	667.00	.1810-01	.1300-01	.2410-01	.9183	.6110-03	.1128-02	.7200-01	.4910	545.3
271	191.25	.46000	668.00	.2000-01	.1440-01	.2650-01	.9183	.6738-03	.1240-02	.8000-01	.5450	544.9
271	191.25	.47000	669.00	.2330-01	.1670-01	.3100-01	.9183	.7840-03	.1451-02	.9200-01	.6310	545.7
271	191.25	.48000	670.00	.2740-01	.1970-01	.3640-01	.9183	.9244-03	.1705-02	.1090	.7480	545.1
271	191.25	.49000	671.00	.2820-01	.2020-01	.3760-01	.9183	.9453-03	.1760-02	.1110	.7530	546.4
271	191.25	.50000	672.00	.2800-01	.2010-01	.3730-01	.9183	.9426-03	.1748-02	.1110	.7710	545.9
271	191.25	.60000	673.00	.2850-01	.2030-01	.3810-01	.9183	.9515-03	.1786-02	.1100	.7070	547.6
271	191.25	.70000	674.00	.2850-01	.2020-01	.3870-01	.9183	.9446-03	.1814-02	.1070	.7260	550.4
271	191.25	.85000	676.00	.3610-01	.2560-01	.4880-01	.9183	.1201-02	.2283-02	.1370	.8670	549.2
271	191.25	.86000	677.00	.3900-01	.2760-01	.5290-01	.9183	.1293-02	.2476-02	.1470	.9370	550.1
271	191.25	.87000	678.00	.4090-01	.2890-01	.5560-01	.9183	.1351-02	.2602-02	.1520	.9810	550.8
271	191.25	.88000	679.00	.4220-01	.2970-01	.5740-01	.9183	.1391-02	.2690-02	.1560	1.017	551.3
271	191.25	.89000	680.00	.4140-01	.2910-01	.5660-01	.9183	.1361-02	.2650-02	.1520	1.002	552.1
271	191.25	.90000	681.00	.3600-01	.2530-01	.4920-01	.9183	.1185-02	.2304-02	.1320	.8890	551.9
271	191.25	.91000	682.00	.2730-01	.1930-01	.3710-01	.9183	.9032-03	.1737-02	.1020	.7420	550.7
271	191.25	.92600	683.00	.3750-01	.2640-01	.5120-01	.9183	.1234-02	.2399-02	.1380	1.006	551.9
271	191.25	.95000	684.00	.3730-01	.2630-01	.5070-01	.9183	.1231-02	.2376-02	.1380	.9980	551.1
271	197.00	.33000	685.00	.4000-02	.2900-02	.5200-02	.9183	.1350-03	.2439-03	.1600-01	.1100	542.2
271	197.00	.34000	686.00	.4300-02	.3100-02	.5700-02	.9183	.1464-03	.2653-03	.1800-01	.1190	542.6
271	197.00	.35000	687.00	.4400-02	.3200-02	.5800-02	.9183	.1508-03	.2727-03	.1800-01	.1230	542.3
271	197.00	.36000	688.00	.4500-02	.3200-02	.5900-02	.9183	.1512-03	.2745-03	.1800-01	.1230	542.8
271	197.00	.37000	689.00	.5900-02	.4300-02	.7700-02	.9183	.1997-03	.3625-03	.2400-01	.1620	542.8
271	197.00	.50000	691.00	.2750-01	.1970-01	.3660-01	.9183	.9224-03	.1714-02	.1080	.7280	546.2
271	197.00	.60000	692.00	.3290-01	.2350-01	.4400-01	.9183	.1099-02	.2060-02	.1280	.8230	547.4

(RV7F19)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
271	197.00	.70000	693.00	.3380-01	.2400-01	.4580-01	.9183	.1123-02	.2143-02	.1280	.8660	549.7
271	197.00	.80000	694.00	.3970-01	.2810-01	.5370-01	.9183	.1317-02	.2513-02	.1500	.9420	549.6
271	197.00	.87000	695.00	.5310-01	.3740-01	.7220-01	.9183	.1753-02	.3382-02	.1970	1.255	551.0
271	197.00	.92600	696.00	.4190-01	.2940-01	.5730-01	.9183	.1378-02	.2682-02	.1540	1.122	552.0
271	209.80	.15000-01	697.00	.9730-01	.6890-01	.1317	.9183	.3225-02	.6166-02	.3670	2.513	549.9
272	209.80	.30000-01	698.00	.2286	.1633	.2432	.9425	.7645-02	.1138-01	.8880	6.042	547.3
272	209.80	.50000-01	699.00	.2338	.1675	.2581	.9381	.7843-02	.1208-01	.9180	5.838	546.4
272	209.80	.70000-01	700.00	.2384	.1654	.2815	.9327	.7741-02	.1318-01	.8380	5.644	555.2
272	209.80	.10000+00	701.00	.1272	.9210-01	.1555	.9262	.4313-02	.7277-02	.5190	3.312	543.3
272	209.80	.15000	702.00	.4680-01	.3440-01	.5990-01	.9196	.1609-02	.2803-02	.2010	1.447	538.3
272	209.80	.20000	703.00	.2180-01	.1630-01	.2780-01	.9183	.7634-03	.1300-02	.1000+00	.6730	532.2
272	209.80	.37500	706.00	.5300-02	.4000-02	.6700-02	.9183	.1867-03	.3159-03	.2500-01	.1710	531.0
272	209.80	.50000	707.00	.1550-01	.1140-01	.2020-01	.9183	.5332-03	.9445-03	.6600-01	.4560	539.0
272	209.80	.60000	708.00	.2180-01	.1610-01	.2820-01	.9183	.7531-03	.1320-02	.9500-01	.6090	537.3
272	209.80	.70000	709.00	.1390-01	.1010-01	.1830-01	.9183	.4709-03	.8549-03	.5700-01	.3630	542.8
272	209.80	.80000	710.00	.1850-01	.1350-01	.2430-01	.9183	.6311-03	.1137-02	.7700-01	.4800	541.7
272	209.80	.87000	711.00	.2530-01	.1830-01	.3350-01	.9183	.8553-03	.1569-02	.1020	.6450	544.4
272	209.80	.92600	712.00	.1940-01	.1380-01	.2590-01	.9183	.6473-03	.1214-02	.7500-01	.5460	547.5
272	217.70	.15000-01	713.00	.1004	.7440-01	.1290	.9183	.3481-02	.6041-02	.4450	3.085	535.6
272	217.70	.30000-01	714.00	.2177	.1553	.2305	.9431	.7268-02	.1079-01	.8410	5.718	547.8
272	217.70	.50000-01	715.00	.2373	.1690	.2612	.9387	.7913-02	.1223-01	.9130	5.951	548.2
272	217.70	.70000-01	716.00	.2639	.1775	.3156	.9332	.8310-02	.1478-01	.8420	5.703	562.2
272	217.70	.10000+00	717.00	.1287	.9290-01	.1571	.9266	.4349-02	.7353-02	.5190	3.368	544.3
272	217.70	.15000	718.00	.5430-01	.3990-01	.6940-01	.9198	.1867-02	.3248-02	.2340	1.718	538.3
272	217.70	.20000	719.00	.2440-01	.1830-01	.3110-01	.9183	.8557-03	.1455-02	.1130	.7650	531.9
272	217.70	.30000	720.00	.3800-02	.2800-02	.4800-02	.9183	.1311-03	.2267-03	.1700-01	.1210	535.0
272	217.70	.35000	721.00	.5300-02	.4000-02	.6800-02	.9183	.1879-03	.3170-03	.2500-01	.1750	530.5
272	217.70	.37500	722.00	.5000-02	.3700-02	.6300-02	.9183	.1749-03	.2963-03	.2300-01	.1620	531.2
272	217.70	.50000	723.00	.1700-01	.1250-01	.2200-01	.9183	.5874-03	.1032-02	.7400-01	.5130	537.6
272	217.70	.70000	725.00	.1650-01	.1200-01	.2170-01	.9183	.5620-03	.1014-02	.6800-01	.4350	542.0
272	217.70	.80000	726.00	.1190-01	.8700-02	.1550-01	.9183	.4058-03	.7258-03	.5000-01	.3150	540.6
272	217.70	.87000	727.00	.1510-01	.1090-01	.1990-01	.9183	.5120-03	.9293-03	.6200-01	.3960	542.8
272	217.70	.92600	728.00	.2040-01	.1460-01	.2730-01	.9183	.6839-03	.1276-02	.8000-01	.5810	546.7

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = 10.00 BETA = -3.000 GRIT = 3.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
63	5.500	4.952	10.06	2.900	-16.00	177.9	.1910	744.0	105.5	4.048	2769.	.1520-03
64	5.500	4.950	10.07	2.900	-16.00	177.9	.1910	744.0	105.6	4.050	2769.	.1520-03
65	5.500	4.950	10.08	2.900	-16.00	177.9	.1910	744.0	105.6	4.050	2769.	.1520-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
63	.8497-07	.4479-01	.1366-01
64	.8501-07	.4480-01	.1366-01
65	.8501-07	.4480-01	.1366-01

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
64	.00000	.30000-02	730.00	.4528	.3408	.3773	.9805	.1527-01	.1690-01	2.298	15.41	593.9
64	.00000	.10300-01	731.00	.2414	.1933	.2867	.9182	.8659-02	.1284-01	1.618	1.09	557.5
64	.00000	.15000-01	732.00	.2730	.2175	.3259	.9182	.9742-02	.1460-01	1.782	12.64	561.4
64	.00000	.20000-01	733.00	.4955	.3721	.4198	.9772	.1667-01	.1881-01	2.493	16.71	594.9
64	.00000	.25000-01	734.00	.6906	.4961	.5763	.9753	.2222-01	.2582-01	2.936	19.34	612.3
64	.00000	.30000-01	735.00	.6684	.4926	.5717	.9737	.2207-01	.2561-01	3.123	20.79	602.9
64	.00000	.40000-01	737.00	.5173	.3959	.4552	.9722	.1773-01	.2039-01	2.813	18.00	585.8
64	.00000	.45000-01	738.00	.5378	.4106	.4773	.9705	.1839-01	.2138-01	2.895	18.78	587.0
64	.00000	.60000-01	739.00	.4857	.3612	.4394	.9653	.1618-01	.1968-01	2.349	15.38	599.2
64	.00000	.70000-01	740.00	.4420	.3311	.4094	.9619	.1483-01	.1834-01	2.200	14.52	596.1
64	.00000	.80000-01	741.00	.3878	.2921	.3672	.9586	.1309-01	.1645-01	1.974	14.02	593.6
64	.00000	.10000+00	742.00	.3638	.2801	.3592	.952'	.1255-01	.1609-01	2.030	13.32	582.6
64	.00000	.12500	743.00	.2717	.2074	.2812	.9445	.9293-02	.1260-01	1.463	10.43	586.9
64	.00000	.15000	744.00	.2155	.1681	.2319	.9375	.7530-02	.1039-01	1.274	8.730	575.2
64	.00000	.17500	745.00	.1447	.1146	.1606	.9311	.5134-02	.7194-02	.9190	6.845	565.3
64	.00000	.20000	746.00	.1100	.8800-01	.1255	.9255	.3941-02	.5620-02	.7320	5.205	558.7
64	.00000	.21500	747.00	.9160-01	.7350-01	.1059	.9225	.3290-02	.4746-02	.6190	4.270	556.2
64	.00000	.23000	748.00	.8150-01	.6540-01	.9590-01	.9198	.2928-02	.4294-02	.5500	4.043	556.7

(RV7F19)

(IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
64	.00000	.24000	749.00	.7080-01	.5680-01	.8400-01	.9182	.2543-02	.3762-02	.4780	3.588	556.4
64	.00000	.25000	750.00	.3920-01	.3150-01	.4630-01	.9182	.1413-02	.2074-02	.2700	2.177	553.3
64	.00000	.30000	751.00	.7610-01	.6090-01	.9040-01	.9182	.2729-02	.4047-02	.5100	3.330	557.5
64	.00000	.35000	752.00	.7340-01	.5890-01	.8710-01	.9182	.2639-02	.3900-02	.4970	3.124	556.2
64	.00000	.40000	753.00	.6920-01	.5450-01	.8110-01	.9182	.2441-02	.3633-02	.4530	2.895	558.8
64	.00000	.50000	754.00	.6180-01	.4870-01	.7460-01	.9182	.2180-02	.3344-02	.3810	2.468	559.4
64	.00000	.60000	755.00	.4970-01	.3920-01	.5970-01	.9182	.1758-02	.2676-02	.3120	1.978	567.1
64	.00000	.70000	756.00	.4930-01	.3860-01	.5990-01	.9182	.1731-02	.2682-02	.2970	1.935	572.8
64	.00000	.80000	757.00	.5380-01	.4260-01	.6450-01	9182	.1910-02	.2888-02	.3430	2.133	564.6
64	.00000	.90000	758.00	.3220-01	.2560-01	.3840-01	.9182	.1149-02	.1720-02	.2110	1.352	561.1
64	55.000	.22000	759.00	.7360-01	.5940-01	.8620-01	.9196	.2660-02	.3860-02	.5120	3.800	551.9
64	55.000	.25000	760.00	.3700-01	.2990-01	.4390-01	.9166	.1340-02	.1966-02	.2610	2.045	549.4
64	55.000	.27000	761.00	.4960-01	.3990-01	.5930-01	.9166	.1786-02	.2656-02	.3380	2.507	554.9
64	55.000	.30000	762.00	.6720-01	.5420-01	.8030-01	.9166	.2430-02	.3584-02	.4680	2.607	551.8
64	55.000	.32000	763.00	.6980-01	.5640-01	.8290-01	.9166	.2526-02	.3715-02	.4890	2.890	550.6
64	55.000	.34000	764.00	.6780-01	.5480-01	.8060-01	.9166	.2455-02	.3609-02	.4760	2.820	550.4
64	55.000	.36000	765.00	.6610-01	.5340-01	.7850-01	.9165	.2392-02	.3518-02	.4640	c.784	550.5
64	55.000	.38000	766.00	.6340-01	.5120-01	.7530-01	.9166	.2292-02	.3374-02	.4430	2.689	551.0
64	55.000	.40000	767.00	.6110-01	.4930-01	.7270-01	.9166	.2208-02	.3255-02	.4260	2.657	551.4
64	67.500	.23000	768.00	.5840-01	.4730-01	.6930-01	.9168	.2118-02	.3104-02	.4130	3.071	549.3
64	67.500	.25000	769.00	.3150-01	.2560-01	.3750-01	.9155	.1145-02	1691-02	.2260	1.757	547.1
64	67.500	.27000	770.00	.4980-01	.4020-01	.5970-01	.9155	.1800-02	.2676-02	.3460	2.517	552.2
64	67.500	.29000	771.00	.4620-01	.3740-01	.5510-01	.9155	.1676-02	.2466-02	.3290	2.035	548.3
64	67.500	.30000	772.00	.6040-01	.4890-01	.7210-01	.9155	.2191-02	.3231-02	.4280	2.611	549.1
64	67.500	.31000	773.00	.5740-01	.4650-01	.6850-01	.9155	.2082-02	.3067-02	.4070	2.467	8.7
64	57.500	.32000	774.00	.5530-01	.4570-01	.6710-01	.9155	.2047-02	.3007-02	.4030	2.425	547.3
64	67.500	.32500	775.00	.5730-01	.4650-01	.6830-01	.9155	.2084-02	.3058-02	.4110	2.479	547.1
64	67.500	.33000	776.00	.5890-01	.4780-01	.7020-01	.9155	.2141-02	.3144-02	.4220	2.553	547.2
64	67.500	.33500	777.00	.6010-01	.4880-01	.7150-01	.9155	.2185-02	.3203-02	.4320	2.611	546.7
64	67.500	.34000	778.00	.6020-01	.4880-01	.7160-01	9155	.2187-02	.3208-02	.4320	2.613	546.8
64	67.500	.34500	779.00	.6030-01	.4890-01	.7170-01	.9155	.2189-02	.3212-02	.4320	2.619	547.0
64	67.500	.35000	780.00	.5910-01	.4790-01	.7030-01	.9155	.2148-02	.3149-02	.4250	2.582	546.8
64	67.500	.35500	781.00	.5900-01	.4790-01	.7020-01	.9155	.2144-02	.3144-02	.4240	2.584	546.7
64	67.500	.36000	782.00	.5750-01	.4680-01	.6850-01	.9155	.2089-02	.3071-02	.4130	2.519	547.0
64	67.500	.36500	783.00	.5650-01	.4580-01	.6720-01	.9155	.2054-02	.3009-02	.4070	2.474	546.3
64	67.500	.37000	784.00	.5530-01	.4470-01	.6540-01	.9155	.2008-02	.2931-02	.3960	2.422	546.4
64	67.500	.37500	785.00	.5430-01	.4410-01	.6430-01	.9155	.1973-02	.2893-02	.3900	2.370	545.7
64	67.500	.38000	786.00	.5470-01	.4440-01	.6510-01	.9155	.1989-02	.2916-02	.3930	2.426	547.0
64	67.500	.38500	787.00	.5550-01	.4500-01	.6620-01	.9155	.2016-02	.2954-02	.3990	2.454	547.8
64	67.500	.39000	788.00	.5630-01	.4560-01	.6720-01	.9155	.2043-02	.2995-02	.4050	2.483	548.7
64	67.500	.39500	789.00	.5710-01	.4630-01	.6810-01	.9155	.2075-02	.2728-02	.4110	2.471	548.9
64	67.500	.40000	790.00	.5790-01	.4690-01	.6910-01	.9155	.2102-02	.3082-02	.4160	2.542	548.5

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F19)

(IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
65	67.500	.80000	792.00	.5080-01	.4100-01	.6090-01	.9155	.1837-02	.2728-02	.3530	2.215	552.0
65	67.500	.90000	793.00	.2530-01	.2050-01	.3030-01	.9155	.9184-03	.1356-02	.1790	1.152	549.6
65	78.000	.27000	794.00	.4340-01	.3510-01	.5220-01	.9145	.1574-02	.2336-02	.3070	2.184	549.5
65	78.000	.29000	795.00	.4410-01	.3570-01	.5250-01	.9165	.1596-02	.2351-02	.3090	1.900	549.9
65	78.000	.30000	796.00	.5360-01	.4350-01	.6420-01	.9146	.1949-02	.2877-02	.3840	2.330	547.1
65	78.000	.31000	797.00	.5380-01	.4370-01	.6430-01	.9146	.1956-02	.2881-02	.3880	2.350	546.2
65	78.000	.32000	798.00	.5110-01	.4150-01	.6100-01	.9146	.1860-02	.2734-02	.3700	2.232	545.5
65	78.000	.32500	799.00	.5240-01	.4260-01	.6260-01	.9146	.1908-02	.2804-02	.3800	2.297	545.3
65	78.000	.33000	800.00	.5150-01	.4190-01	.6160-01	.9146	.1878-02	.2758-02	.3740	2.266	545.0
65	78.000	.33500	801.00	.5120-01	.4170-01	.6120-01	.9146	.1866-02	.2740-02	.3720	2.251	545.0
65	78.000	.34000	802.00	.4550-01	.3700-01	.5430-01	.9146	.1658-02	.2432-02	.3320	2.007	544.4
65	78.000	.34500	803.00	.4840-01	.3980-01	.5830-01	.9146	.1781-02	.2612-02	.3560	2.161	544.4
65	78.000	.35000	804.00	.5060-01	.4120-01	.6040-01	.9146	.1846-02	.2706-02	.3690	2.241	544.4
65	78.000	.35500	805.00	.5280-01	.4300-01	.6300-01	.9146	.1926-02	.2821-02	.3860	2.344	544.0
65	78.000	.36000	806.00	.3840-01	.3120-01	.4580-01	.9146	.1400-02	.2053-02	.2800	1.703	544.4
65	78.000	.36500	807.00	.5010-01	.4080-01	.5980-01	.9146	.1827-02	.2678-02	.3660	2.232	544.2
65	78.000	.37000	808.00	.5070-01	.4130-01	.6050-01	.9146	.1850-02	.2712-02	.3700	2.266	544.2
65	78.000	.37500	809.00	.4840-01	.3940-01	.5780-01	.9146	.1764-02	.2587-02	.3530	2.159	544.4
65	78.000	.38000	810.00	.4470-01	.3640-01	.5340-01	.9146	.1631-02	.2392-02	.3260	2.009	544.3
65	78.000	.39000	811.00	.4390-01	.3570-01	.5250-01	.9146	.1600-02	.2350-02	.3190	1.968	545.0
65	78.000	.40000	812.00	.4320-01	.3520-01	.5160-01	.9146	.1577-02	.2311-02	.3160	1.948	544.2
65	90.000	.20000	813.00	.4100-01	.3330-01	.4900-01	.9144	.1493-02	.2193-02	.2980	2.167	544.9
65	90.000	.24000	814.00	.3310-01	.2690-01	.3970-01	.9136	.1204-02	.1780-02	.2390	1.938	545.6
65	90.000	.27000	816.00	.3400-01	.2760-01	.4090-01	.9136	.1235-02	.1830-02	.2440	1.736	546.7
65	90.000	.29000	817.00	.3270-01	.2660-01	.3930-01	.9136	.1193-02	.1759-02	.2380	1.482	544.7
65	90.000	.30000	818.00	.4370-01	.3550-01	.5250-01	.9136	.1591-02	.2350-02	.3170	1.937	545.3
65	90.000	.31000	819.00	.4440-01	.3610-01	.5320-01	.9136	.1617-02	.2384-02	.3230	1.961	544.6
65	90.000	.32000	820.00	.4310-01	.3510-01	.5170-01	.9136	.1573-02	.2317-02	.3150	1.906	544.2
65	90.000	.32500	821.00	.4470-01	.3640-01	.5350-01	.9136	.1631-02	.2398-02	.3280	1.979	543.4
65	90.000	.33000	822.00	.4490-01	.3660-01	.5380-01	.9136	.1641-02	.2410-02	.3310	2.003	542.8
65	90.000	.33500	823.00	.4490-01	.3660-01	.5380-01	.9136	.1640-02	.2409-02	.3310	2.008	542.8
65	90.000	.34000	824.00	.4530-01	.3690-01	.5420-01	.9136	.1655-02	.2430-02	.3340	2.015	542.8
65	90.000	.34500	825.00	.4420-01	.3610-01	.5290-01	.9136	.1616-02	.2369-02	.3270	1.981	542.1
65	90.000	.35000	826.00	.4500-01	.3670-01	.5380-01	.9136	.1643-02	.2412-02	.3320	2.009	542.6
65	90.000	.36000	828.00	.3990-01	.3250-01	.4770-01	.9136	.1457-02	.2138-02	.2940	1.776	542.6
65	90.000	.37000	830.00	.4080-01	.3330-01	.4880-01	.9136	.1492-02	.2187-02	.3020	1.836	541.9
65	90.000	.37500	831.00	.4100-01	.3350-01	.4900-01	.9136	.1499-02	.2196-02	.3040	1.855	541.8
65	90.000	.38000	832.00	.4110-01	.3360-01	.4920-01	.9136	.1504-02	.2205-02	.3040	1.857	542.3
65	90.000	.39000	833.00	.3740-01	.3050-01	.4470-01	.9136	.1367-02	.2003-02	.2770	1.709	541.9
65	90.000	.40000	834.00	.3960-01	.3230-01	.4740-01	.9136	.1449-02	.2125-02	.2930	1.812	542.4
65	90.000	.50000	835.00	.3880-01	.3150-01	.4670-01	.9136	.1412-02	.2094-02	.2790	1.760	547.0
65	90.000	.60000	836.00	.3410-01	.2770-01	.4090-01	.9136	.1242-02	.1834-02	.2480	1.650	545.1
65	90.000	.70000	837.00	.3290-01	.2670-01	.3970-01	.9136	.1195-02	.1779-02	.2340	1.646	548.5

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F19)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
65	90.000	.80000	838.00	.3070-01	.2500-01	.3680-01	.9136	.1120-02	.1649-02	.2250	1.398	543.9
65	90.000	.90000	839.00	.1930-01	.1570-01	.2310-01	.9136	.7054-03	.1037-02	.1420	.9090	543.2
65	112.50	.23000	840.00	.2620-01	.2140-01	.3140-01	.9130	.9582-03	.1406-02	.1950	1.574	541.2
65	112.50	.25000	841.00	.1140-01	.9300-02	.1360-01	.9130	.4174-03	.6111-03	.8500-01	.6630	540.1
65	112.50	.27000	842.00	.1180-01	.9600-02	.1410-01	.9130	.4308-03	.6317-03	.8800-01	.6160	540.8
65	112.50	.30000	843.00	.2620-01	.2140-01	.3150-01	.9130	.9597-03	.1410-02	.1950	1.161	541.6
65	112.50	.33000	844.00	.2720-01	.2220-01	.3260-01	.9130	.9959-03	.1460-02	.2030	1.228	540.6
65	112.50	.35000	845.00	.3120-01	.2550-01	.3740-01	.9130	.1142-02	.1673-02	.2330	1.432	540.5
65	112.50	.37000	846.00	.3290-01	.2690-01	.3940-01	.9130	.1205-02	.1764-02	.2460	1.521	540.2
65	112.50	.40000	847.00	.2930-01	.2390-01	.3500-01	.9130	.1073-02	.1570-02	.2200	1.373	539.8
65	112.50	.45000	848.00	.2670-01	.2190-01	.3200-01	.9130	.9797-03	.1433-02	.2000	1.264	539.8
65	112.50	.50000	849.00	.2470-01	.2010-01	.2960-01	.9130	.9020-03	.1326-02	.1830	1.177	541.9
65	112.50	.55000	850.00	.1800-01	.1470-01	.2160-01	.9130	.6585-03	.9675-03	.1340	.8940	541.6
65	112.50	.60000	851.00	.2160-01	.1770-01	.2590-01	.9130	.7928-03	.1159-02	.1630	1.093	539.3
65	112.50	.65000	852.00	.2270-01	.1860-01	.2720-01	.9130	.8342-03	.1218-02	.1710	1.171	538.8
65	112.50	.70000	853.00	.2200-01	.1790-01	.2630-01	.9130	.8040-03	.1179-02	.1640	1.153	540.7
65	112.50	.75000	854.00	.2080-01	.1700-01	.2490-01	.9130	.7627-03	.1115-02	.1560	1.018	539.3
65	112.50	.80000	855.00	.2930-01	.2400-01	.3500-01	.9130	.1077-02	.1566-02	.2230	1.457	537.3
65	112.50	.90000	856.00	.3050-01	.2510-01	.3640-01	.9130	.1122-02	.1632-02	.2330	1.516	537.1
65	125.40	.84000	857.00	.3020-01	.2480-01	.3600-01	.9130	.1109-02	.1614-02	.2290	1.424	537.5
65	125.40	.85000	858.00	.3000-01	.2460-01	.3580-01	.9130	.1102-02	.1606-02	.2270	1.420	538.0
65	125.40	.86000	859.00	.3090-01	.2520-01	.3670-01	.9130	.1129-02	.1646-02	.2330	1.467	538.1
65	125.40	.87000	860.00	.3210-01	.2630-01	.3830-01	.9130	.1176-02	.1715-02	.2420	1.530	538.4
65	125.40	.88000	861.00	.3380-01	.2770-01	.4040-01	.9130	.1239-02	.1809-02	.2550	1.608	538.8
65	125.40	.89000	862.00	.3850-01	.3150-01	.4600-01	.9130	.1410-02	.2060-02	.2890	1.835	539.2
65	125.40	.90000	863.00	.3300-01	.2700-01	.3940-01	.9130	.1210-02	.1765-02	.2490	1.591	538.4
65	125.40	.91000	864.00	.2430-01	.1990-01	.2900-01	.9130	.8934-03	.1297-02	.1830	1.159	539.4
65	125.40	.92000	865.00	.3300-01	.2700-01	.3950-01	.9130	.1210-02	.1769-02	.2480	1.804	539.4
65	129.30	.86000	866.00	.2390-01	.1960-01	.2860-01	.9130	.8770-03	.1279-02	.1810	1.140	538.4
65	129.30	.87000	867.00	.2500-01	.2050-01	.2980-01	.9130	.9162-03	.1337-02	.1890	1.192	537.6
65	129.30	.88000	868.00	.2930-01	.2410-01	.3500-01	.9130	.1078-02	.1568-02	.2220	1.405	537.0
65	129.30	.89000	869.00	.3150-01	.2590-01	.3760-01	.9130	.1153-02	.1685-02	.2390	1.511	537.3
65	135.00	.40000-01	870.00	.2456	.1941	.2503	.9464	.8693-02	.1121-01	1.612	9.817	567.0
65	135.00	.50000-01	871.00	.2294	.1818	.2368	.9431	.8145-02	.1061-01	1.487	9.436	561.8
65	135.00	.60000-01	872.00	.2293	.1809	.2425	.9399	.8105-02	.1036-01	1.429	9.238	559.1
65	135.00	.70000-01	873.00	.3266	.2479	.3556	.9303	.1111-01	.1593-01	1.724	11.48	559.2
65	135.00	.80000-01	874.00	.1556	.1246	.1740	.9287	.5591-02	.7784-02	1.043	6.805	557.6
65	135.00	.15000	876.00	.8250-01	.6670-01	.9690-01	.9126	.2888-02	.4241-02	.5810	4.242	560.0
65	135.00	.30000	877.00	.3630-01	.2970-01	.4340-01	.9133	.1328-02	.1945-02	.2710	1.853	560.5
65	135.00	.35000	878.00	.1910-01	.1570-01	.2230-01	.9130	.7020-03	.1024-02	.1440	.9810	559.6
65	135.00	.40000	879.00	.1760-01	.1440-01	.2100-01	.9130	.6443-03	.9399-03	.1320	.8950	559.4
65	135.00	.80000	880.00	.1230-01	.1000-01	.1470-01	.9130	.4496-03	.6587-03	.9220-01	.6330	560.4
65	135.00	.85000	881.00	.8300-02	.6800-02	.1110-01	.9130	.3401-03	.4976-03	.7000-01	.4850	559.7

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F19)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
65	135.00	.60000	882.00	.1780-01	.1450-01	.2130-01	.9130	.6518-03	.9521-03	.1340	.9030	539.1
65	135.00	.65000	883.00	.1910-01	.1570-01	.2290-01	.9130	.7022-03	.1024-02	.1450	.9910	538.4
65	135.00	.70000	884.00	.2330-01	.1910-01	.2790-01	.9130	.8540-03	.1250-02	.1740	1.244	540.1
65	135.00	.75000	885.00	.2400-01	.1970-01	.2880-01	.9130	.8821-03	.1288-02	.1810	1.147	538.9
65	135.00	.80000	886.00	.2500-01	.2050-01	.2980-01	.9130	.9181-03	.1333-02	.1910	1.206	536.4
65	135.00	.84000	887.00	.3000-01	.2460-01	.3580-01	.9130	.1102-02	.1603-02	.2280	1.442	537.2
63	180.00	.40000-01	600.00	.2124	.1681	.2251	.9393	.7530-02	.1008-01	1.344	8.557	565.6
63	180.00	.50000-01	601.00	.2353	.1864	.2537	.9361	.8349-02	.1136-01	1.496	9.557	564.9
63	180.00	.60000-01	602.00	.2628	.2046	.2908	.9331	.9164-02	.1302-01	1.539	10.10	576.1
63	180.00	.70000-01	603.00	.2935	.2232	.3350	.9303	.9998-02	.1500-01	1.554	10.39	588.6
63	180.00	.80000-01	604.00	.2053	.1619	.2333	.9277	.7250-02	.1045-01	1.275	8.205	568.2
63	180.00	.10000+00	605.00	.1009	.8090-01	.1164	.9230	.3625-02	.5213-02	.6810	4.868	556.0
63	180.00	.15000	606.00	.4210-01	.3420-01	.5040-01	.9150	.1530-02	.2257-02	.3000	2.132	547.7
63	180.00	.20000	607.00	.1460-01	.1190-01	.1760-01	.9130	.5342-03	.7888-03	.1070	.7000	543.5
63	180.00	.21000	608.00	.9900-02	.8100-02	.1200-01	.9130	.3623-03	.5354-03	.7300-01	.5020	543.8
63	180.00	.22000	609.00	.7600-02	.6200-02	.9200-02	.9130	.2775-03	.4105-03	.5500-01	.4130	544.3
63	180.00	.30000	610.00	.2270-01	.1850-01	.2730-01	.9130	.8307-03	.1223-02	.1680	1.150	542.2
63	180.00	.35000	611.00	.2700-02	.2200-02	.3200-02	.9130	.9748-04	.1431-03	.2000-01	.1320	540.3
63	180.00	.36000	612.00	.1800-02	.1500-02	.2200-02	.9130	.6746-04	.9899-04	.1400-01	.9200-01	540.8
63	180.00	.37000	613.00	.3400-02	.2800-02	.4100-02	.9130	.1238-03	.1815-03	.2500-01	.1700	540.5
63	180.00	.37500	614.00	.2600-02	.2100-02	.3100-02	.9130	.9432-04	.1385-03	.1900-01	.1290	541.1
63	180.00	.38000	615.00	.1000-02	.8000-03	.1100-02	.9130	.3476-04	.5109-04	.7000-02	.4700-01	541.5
63	180.00	.39500	616.00	.2800-02	.2300-02	.3400-02	.9130	.1040-03	.1527-03	.2100-01	.1420	541.1
63	180.00	.39000	617.00	.2900-02	.2400-02	.3500-02	.9130	.1068-03	.1568-03	.2200-01	.1460	541.0
63	180.00	.39500	618.00	.3300-02	.2700-02	.4000-02	.9130	.1215-03	.1783-03	.2500-01	.1670	540.9
63	180.00	.40000	619.00	.3800-02	.3100-02	.4500-02	.9130	.1380-03	.2025-03	.2800-01	.1880	540.9
63	180.00	.40500	620.00	.3100-02	.2600-02	.3800-02	.9130	.1150-03	.1689-03	.2300-01	.1570	541.2
63	180.00	.41000	621.00	.4100-02	.3300-02	.4900-02	.9130	.1494-03	.2195-03	.3000-01	.2040	541.4
63	180.00	.41500	622.00	.4500-02	.3600-02	.5300-02	.9130	.1631-03	.2396-03	.3300-01	.2220	541.3
63	180.00	.42000	623.00	.5100-02	.5000-02	.7400-02	.9130	.2236-03	.3293-03	.4500-01	.3030	542.4
63	180.00	.42500	624.00	.4100-02	.3400-02	.5000-02	.9130	.1530-03	.2225-03	.3000-01	.2060	542.5
63	180.00	.43000	625.00	.6900-02	.5600-02	.8200-02	.9130	.2507-03	.3691-03	.5100-01	.3410	542.3
63	180.00	.44000	626.00	.4800-02	.3900-02	.5700-02	.9130	.1743-03	.2567-03	.3500-01	.2390	542.4
63	180.00	.44500	627.00	.4900-02	.4000-02	.5900-02	.9130	.1782-03	.2625-03	.3600-01	.2440	542.5
63	180.00	.45000	628.00	.3900-02	.3200-02	.4700-02	.9130	.1418-03	.2088-03	.2900-01	.1980	542.3
63	180.00	.45500	629.00	.4900-02	.4000-02	.5900-02	.9130	.1800-03	.2649-03	.3600-01	.2450	542.1
63	180.00	.46000	630.00	.5500-02	.4500-02	.6600-02	.9130	.2005-03	.2957-03	.4000-01	.2710	543.0
63	180.00	.47000	631.00	.8300-02	.6800-02	.1000-01	.9130	.3028-03	.4473-03	.6100-01	.4150	543.6
63	180.00	.49000	633.00	.7100-02	.5800-02	.8600-02	.9130	.2599-03	.3839-03	.5200-01	.3650	543.6
63	180.00	.50000	634.00	.1250-01	.1020-01	.1510-01	.9130	.4548-03	.6741-03	.9100-01	.6020	545.0
63	180.00	.55000	635.00	.2200-01	.1790-01	.2650-01	.9130	.8035-03	.1189-02	.1610	1.036	544.3
63	180.00	.60000	636.00	.2460-01	.2000-01	.2960-01	.9130	.8975-03	.1326-02	.1800	1.165	543.7
63	180.00	.65000	637.00	.2520-01	.2040-01	.3030-01	.9130	.9158-03	.1359-02	.1820	1.246	545.4
63	180.00	.70000	638.00									

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F19)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TH DEG. R
63	180.00	.75000	639.00	.2380-01	.1940-01	.2880-01	.9130	.8676-03	.1288-02	.1720	1.111	545.6
63	180.00	.80000	640.00	.2880-01	.2350-01	.3470-01	.9130	.1051-02	.1554-02	.2100	1.318	544.1
63	180.00	.85000	641.00	.3200-01	.2600-01	.3860-01	.9130	.1167-02	.1728-02	.2330	1.471	544.7
63	180.00	.86000	642.00	.3420-01	.2780-01	.4120-01	.9130	.1246-02	.1847-02	.2480	1.588	545.3
63	180.00	.87000	643.00	.4330-01	.3520-01	.5230-01	.9130	.1575-02	.2341-02	.3120	2.010	546.2
63	180.00	.88000	644.00	.5260-01	.4270-01	.6350-01	.9130	.1911-02	.2842-02	.3770	2.456	546.5
63	180.00	.89000	645.00	.4010-01	.3260-01	.4840-01	.9130	.1459-02	.2170-02	.2880	1.899	546.3
63	180.00	.90000	646.00	.3170-01	.2580-01	.3820-01	.9130	.1154-02	.1709-02	.2300	1.547	544.8
63	180.00	.92600	648.00	.2760-01	.2240-01	.3330-01	.9130	.1002-02	.1491-02	.1980	1.442	546.7
63	180.00	.95000	649.00	.4830-01	.3920-01	.5830-01	.9130	.1756-02	.2612-02	.3470	2.505	546.6
63	191.25	.36000	651.00	.4500-02	.3700-02	.5500-02	.9130	.1658-03	.2443-03	.3300-01	.2260	542.4
63	191.25	.37000	652.00	.3300-02	.2700-02	.4000-02	.9130	.1223-03	.1802-03	.2500-01	.1660	542.3
63	191.25	.37500	653.00	.3600-02	.2930-02	.4300-02	.9130	.1306-03	.1924-03	.2600-01	.1780	542.5
63	191.25	.38000	654.00	.4500-02	.3600-02	.5400-02	.9130	.1635-03	.2406-03	.3300-01	.2230	542.2
63	191.25	.38500	655.00	.4200-02	.3430-02	.5000-02	.9130	.1523-03	.2243-03	.3100-01	.2080	542.4
63	191.25	.39000	656.00	.4700-02	.3800-02	.5600-02	.9130	.1700-03	.2505-03	.3400-01	.2320	542.5
63	191.25	.39500	657.00	.1010-01	.8220-02	.1210-01	.9130	.3686-03	.5423-03	.7400-01	.5030	541.9
63	191.25	.40000	658.00	.9500-02	.7700-02	.1140-01	.9130	.3465-03	.5101-03	.7000-01	.4740	542.2
63	191.25	.40500	659.00	.5500-02	.4500-02	.6700-02	.9130	.2026-03	.2983-03	.4100-01	.2770	542.4
63	191.25	.41000	660.00	.6100-02	.5000-02	.7400-02	.9130	.2237-03	.3297-03	.4500-01	.3040	542.7
63	191.25	.41500	661.00	.6200-02	.5100-02	.7500-02	.9130	.2294-03	.3413-03	.4600-01	.3100	542.7
63	191.25	.42000	662.00	.8600-02	.7000-02	.1030-01	.9130	.3115 03	.4598 03	.6300-01	.4220	543.3
63	191.25	.42500	663.00	.8090-02	.6610-02	.9700-02	.9130	.2983-03	.4282-03	.5900-01	.3960	543.0
63	191.25	.43000	664.00	.8800-02	.7200-02	.1060-01	.9130	.3214-03	.4746-03	.6500-01	.4400	543.6
63	191.25	.44000	665.00	.9400-02	.7700-02	.1130-01	.9130	.3429-03	.5068-03	.6900-01	.4650	543.9
63	191.25	.45000	666.00	.1070-01	.8700-02	.1280-01	.9130	.3889-03	.5704-03	.7800-01	.5300	544.0
63	191.25	.45500	667.00	.1031-01	.8200-02	.1220-01	.9130	.3681 03	.5443-03	.7400-01	.5000	544.0
63	191.25	.46000	668.00	.1000-01	.8100-02	.1200-01	.9130	.3640-03	.5365 03	.7300-01	.4950	544.1
63	191.25	.46500	669.00	.1160-01	.9400-02	.1390-01	.9130	.4214-03	.6244 03	.8500-01	.5760	544.4
63	191.25	.47000	670.00	.9130-01	.7740-01	.1150-01	.9130	.7775-03	.1150 02	.1550	1.062	545.2
63	191.25	.47500	671.00	.1040-01	.8470-02	.1250-01	.9130	.5542-03	.7787-03	.1040	.7060	545.0
63	191.25	.48000	672.00	.1140-01	.9270-02	.1370-01	.9130	.4067 03	.6103-03	.8210-01	.5550	545.3
63	191.25	.48500	673.00	.1130-01	.9200-02	.1360-01	.9130	.7952-03	.1040-02	.1390	.9410	545.8
63	191.25	.49000	674.00	.1140-01	.9270-02	.1370-01	.9130	.7952-03	.1040-02	.1390	.9410	545.8
63	191.25	.49500	675.00	.1160-01	.9400-02	.1390-01	.9130	.8092-03	.1060-02	.1420	.9600	545.9
63	191.25	.50000	676.00	.1170-01	.9530-02	.1400-01	.9130	.8232-03	.1078-02	.1440	.9740	545.7
63	191.25	.50500	677.00	.1160-01	.9400-02	.1390-01	.9130	.8092-03	.1060-02	.1420	.9600	545.8
63	191.25	.51000	678.00	.1150-01	.9330-02	.1380-01	.9130	.8022-03	.1050-02	.1410	.9530	545.8
63	191.25	.51500	679.00	.1140-01	.9270-02	.1370-01	.9130	.7952-03	.1040-02	.1390	.9410	545.8
63	191.25	.52000	680.00	.1130-01	.9200-02	.1360-01	.9130	.7882-03	.1032-02	.1380	.9340	545.8
63	191.25	.52500	681.00	.1120-01	.9130-02	.1350-01	.9130	.7812-03	.1022-02	.1370	.9270	545.8
63	191.25	.53000	682.00	.1110-01	.9060-02	.1340-01	.9130	.7742-03	.1013-02	.1360	.9200	545.8
63	191.25	.53500	683.00	.1100-01	.8990-02	.1330-01	.9130	.7672-03	.1003-02	.1350	.9130	545.8
63	191.25	.54000	684.00	.1090-01	.8920-02	.1320-01	.9130	.7602-03	.9940-03	.1340	.9060	545.8
63	191.25	.54500	685.00	.1080-01	.8850-02	.1310-01	.9130	.7532-03	.9850-03	.1330	.8990	545.8
63	191.25	.55000	686.00	.1070-01	.8780-02	.1300-01	.9130	.7462-03	.9759-03	.1320	.8920	545.8
63	191.25	.55500	687.00	.1060-01	.8710-02	.1290-01	.9130	.7392-03	.9668-03	.1310	.8850	545.8
63	191.25	.56000	688.00	.1050-01	.8640-02	.1280-01	.9130	.7322-03	.9577-03	.1300	.8780	545.8
63	191.25	.56500	689.00	.1040-01	.8570-02	.1270-01	.9130	.7252-03	.9486-03	.1290	.8710	545.8
63	191.25	.57000	690.00	.1030-01	.8500-02	.1260-01	.9130	.7182-03	.9395-03	.1280	.8640	545.8
63	191.25	.57500	691.00	.1020-01	.8430-02	.1250-01	.9130	.7112-03	.9304-03	.1270	.8570	545.8
63	191.25	.58000	692.00	.1010-01	.8360-02	.1240-01	.9130	.7042-03	.9213-03	.1260	.8500	545.8
63	191.25	.58500	693.00	.1000-01	.8290-02	.1230-01	.9130	.6972-03	.9122-03	.1250	.8430	545.8
63	191.25	.59000	694.00	.9900-02	.8220-02	.1220-01	.9130	.6902-03	.9031-03	.1240	.8360	545.8
63	191.25	.59500	695.00	.9800-02	.8150-02	.1210-01	.9130	.6832-03	.8940-03	.1230	.8290	545.8
63	191.25	.60000	696.00	.9700-02	.8080-02	.1200-01	.9130	.6762-03	.8849-03	.1220	.8220	545.8
63	191.25	.60500	697.00	.9600-02	.8010-02	.1190-01	.9130	.6692-03	.8758-03	.1210	.8150	545.8
63	191.25	.61000	698.00	.9500-02	.7940-02	.1180-01	.9130	.6622-03	.8667-03	.1200	.8080	545.8
63	191.25	.61500	699.00	.9400-02	.7870-02	.1170-01	.9130	.6552-03	.8576-03	.1190	.8010	545.8
63	191.25	.62000	700.00	.9300-02	.7800-02	.1160-01	.9130	.6482-03	.8485-03	.1180	.7940	545.8
63	191.25	.62500	701.00	.9200-02	.7730-02	.1150-01	.9130	.6412-03	.8394-03	.1170	.7870	545.8
63	191.25	.63000	702.00	.9100-02	.7660-02	.1140-01	.9130	.6342-03	.8303-03	.1160	.7800	545.8
63	191.25	.63500	703.00	.9000-02	.7590-02	.1130-01	.9130	.6272-03	.8212-03	.1150	.7730	545.8
63	191.25	.64000	704.00	.8900-02	.7520-02	.1120-01	.9130	.6202-03	.8121-03	.1140	.7660	545.8
63	191.25	.64500	705.00	.8800-02	.7450-02	.1110-01	.9130	.6132-03	.8030-03	.1130	.7590	545.8
63	191.25	.65000	706.00	.8700-02	.7380-02	.1100-01	.9130	.6062-03	.7939-03	.1120	.7520	545.8
63	191.25	.65500	707.00	.8600-02	.7310-02	.1090-01	.9130	.5992-03	.7848-03	.1110	.7450	545.8
63	191.25	.66000	708.00	.8500-02	.7240-02	.1080-01	.9130	.5922-03	.7757-03	.1100	.7380	545.8
63	191.25	.66500	709.00	.8400-02	.7170-02	.1070-01	.9130	.5852-03	.7666-03	.1090	.7310	545.8
63	191.25	.67000	710.00	.8300-02	.7100-02	.1060-01	.9130	.5782-03	.7575-03	.1080	.7240	545.8
63	191.25	.67500	711.00	.8200-02	.7030-02	.1050-01	.9130	.5712-03	.7484-03	.1070	.7170	545.8
63	191.25	.68000	712.00	.8100-02	.6960-02	.1040-01	.9130	.5642-03	.7393-03	.1060	.7100	545.8
63	191.25	.68500	713.00	.8000-02	.6890-02	.1030-01	.9130	.5572-03	.7302-03	.1050	.7030	545.8
63	191.25	.69000	714.00	.7900-02	.6820-02	.1020-01	.9130	.5502-03	.7211-03	.1040	.6960	545.8
63	191.25	.69500	715.00	.7800-02	.6750-02	.1010-01	.9130	.5432-03	.7120-03	.1030	.6890	545.8
63	191.25	.70000	716.00	.7700-02	.6680-02	.1000-01	.9130	.5362-03	.7029-03	.1020	.6820	545.8
63	191.25	.70500	717.00	.7600-02	.6610-02	.9900-02	.9130	.5292-03	.6938-03	.1010	.6750	545.8
63	191.25	.71000	718.00	.7500-02	.6540-02	.9800-02	.9130	.5222-03	.6847-03	.1000	.6680	545.8
63	191.25	.71500	719.00	.7400-02	.6470-02	.9700-02	.9130	.5152-03	.6756-03	.9900-01	.6610	545.8
63	191.25	.72000	720.00	.7300-02	.6400-02	.9600-02	.9130	.5082-03	.6665-03	.9800-01	.6540	545.8
63	191.25	.72500	721.00	.7200-02	.6330-02	.9500-02	.9130	.5012-03	.6574-03	.9700-01	.6470	545.8
63	191.25	.73000	722.00	.7100-02	.6260-02	.9400-02	.9130	.4942-03	.6483-03	.9600-01	.6400	545.8
63	191.25	.73500	723.00	.7000-02	.6190-02	.9300-02	.9130	.4872-03	.6392-03	.9500-01	.6330	545.8
63	191.25	.74000	724.00	.6900-02	.6120-02	.9200-02	.9130	.4802-03	.6301-03	.9400-01	.6260	545.8
63	191.25	.74500	725.00	.6800-02	.6050-02	.9100-02	.9130	.4732-03	.6210-03	.9300-01	.6190	545.8
63	191.25	.75000	726.00	.6700-02	.5980-02	.9000-02	.9130	.4662-03	.6119-03	.9200-01	.6120	545.8
63	191.25	.75500	727.00	.6600-02	.5910-02	.8900-02	.9130	.4592-03	.6028-03	.9100-01	.6050	545.8
63	191.25	.76000	728.00	.6500-02	.5840-02	.8800-02	.9130	.4522-03	.5937-03	.9000-01	.5980	545.8
63	191.25	.76500	729.00	.6400-02	.5770-02	.8700-02	.9130	.4452-03	.5846-03	.8900-01	.5910	545.8
63	191.25	.77000	730.00	.6300-02	.5700-02	.8600-02	.9130	.4382-03	.5755-03	.8800-01	.5840	545.8
63	191.25	.77500	731.00	.6200-02	.5630-02	.8500-02	.9130	.4312-03	.5664-03	.8700-01	.5770	545.8
63	191.25	.78000	732.00	.6100-02	.5560-02	.8400-02	.9130	.4242-03	.5573-03	.8600-01	.5700	545.8
63	191.25	.78500	733.00	.6000-02	.5490-02	.8300-02	.9130	.4172-03	.5482-03	.8500-01	.5630	545.8
63	191.25	.79000	734.00	.5900-02	.5420-02	.8200-02	.9130	.4102-03	.5391-03	.8400-01	.5560	545.8
63	191.25	.79500	735.00	.5800-02	.5350-02	.8100-02	.9130	.4032-03	.5300-03	.8300-01	.5490	545.8
63	191.25	.80000	736.00	.5700-02	.5280-02	.8000-02	.9130	.3962-03	.5209-03	.8200-01	.5420	545.8
63	191.25	.80500	737.00	.5600-02	.5210-02	.7900-02	.9130	.3892-03	.5118-03	.8100-01	.5350	545.8
63	191.25	.81000	738.00	.5500-02	.5140-02	.7800-02	.9130	.3822-03	.5027-03	.8000-01	.5280	545.8
63	191.25	.81500	739.00	.5400-02	.5070-02	.7700-02	.9130	.3752-03	.4936-03	.7900-01	.5210	545.8
63	191.25	.82000	740.00	.5300-02	.5000-02	.7600-02	.9130	.3682-03	.4845-03	.7800-01	.5140	545.8
63	191.25	.82500	741.00	.5200-02	.4930-02	.7500-02	.9130	.3612-03	.4754-03	.7700-01	.5070	545.8
63	191.25	.83000	742.00	.5100-02	.4860-02	.7400-02	.9130	.3542-03	.4663-03	.7600-01	.5000	545.8
63	191.25	.83500	743.00	.5000-02	.4790-02	.7300-02	.9130	.3472-03	.4572-03	.7500-01	.4930	545.8
63	191.25	.84000	744.00	.4900-02	.4720-02	.7200-02	.9130	.3402-03	.4481-03	.7400-01	.4860	545.8
63	191.25	.84500	745.00	.4800-02	.4650-02	.7100-02	.9130	.3332-03	.4390-03	.7300-01	.4790	545.8
63	191.25	.85000	746.00	.4700-02	.4580-02	.7000-02	.9130	.3262-03	.4299-03	.7200-01	.4720	545.8
63	191.25	.85500	747.00	.4600-02	.4510-02	.6900-02	.9130	.3192-03	.4208-03	.7100-01	.4650	545.8
63	191.25	.86000	748.00	.4500-02	.4440-02	.6800-02	.9130	.3122-03	.4117-03	.7000-01	.4580	545.8
63	191.25	.86500	749.00	.4400-02	.4370-02	.6700-02	.9130	.3052-03	.4026-03	.6900-01	.4510	545.8
63	191.25	.87000	750.00	.4300-02	.4300-02	.6600-02	.9130	.2982-03	.3935-03	.6800-01	.4440	545.8
63	191.25	.87500	751.00	.4200-02	.4230-02	.6500-02	.9130	.2912-03	.3844-03	.6700-01	.4370	545.8
63	191.25	.88000	752.00	.4100-02	.4160-02	.6400-02	.9130	.2842-03	.3753-03	.6600-01	.4300	545.8
63	191.25	.88500	753.00	.4000-02	.4090-02	.6300-02	.9130	.2772-03	.3662-03	.6500-01	.4230	545.8
63	191.25	.89000	754.00	.3900-02	.4020-02	.6200-02	.9130	.2702-03	.3571-03	.6400-01	.4160	545.8
63	191.25	.89500	755.00	.3800-02	.3950-02	.6100-02	.9130	.2632-03	.3480-03	.6300-01	.4090	545.8
63	191.25	.90000	756.00	.3700-02	.3880-02	.6000-02	.9130	.2562-03	.3389-03	.6200-01	.4020	545.8
63	191.25	.90500	757.00	.3600-02	.3810-02	.5900-02	.9130	.2492-03	.3298-03	.6100-01	.3950	545.8
63	191.25	.91000	758.00	.3500-02	.3740-02	.5800-02	.9130	.2422-03	.3207-03	.6000-01	.3880	545.8
63	191.25	.91500	759.00	.3400-02	.3670-02	.5700-02	.9130	.2352-03	.3116-03	.5900-01	.3810	545.8
63	191.25	.92000	760.00	.3300-02	.3600-02	.5600-02	.9130	.2282-03	.3025-03	.5800-01	.3740	545.8
63	191.25	.92500	761.00	.3200-02	.3530-02	.5500-02	.9130	.2212-03	.2934-03	.5700-01	.3670	545.8
63	191.25	.93000	762.00	.3100-02	.3460-02	.5400-02	.9130	.2142-03	.2843-03	.5600-01	.3600	545.8
63	191.25	.93500	763.00	.3000-02	.3390-02	.5300-02	.9130	.2072-03	.2752-03	.5500-01	.3530	545.8
63	191.25	.94000	764.00	.2900-02	.3320-02	.5200-02	.9130	.2002-03	.2661-03	.5400-01	.3460	545.8
63	191.25	.94500	765.00	.2800-02	.3250-02	.5100-02	.9130	.1932-03	.2570-03	.5300-01	.3390	545.8
63	191.25	.95000	766.00	.2700-02	.3180-02	.5000-02	.9130	.1862-03	.2479-03	.5200-01	.3320	545.8
63	191.25	.95500	767.00	.2600-02	.3110-02	.4900-02	.9130	.1792-03	.2388-03	.5100-01	.3250	545.8
63	191.25	.96000	768.00	.2500-02	.3040-02	.4800-02	.9130	.1722-03	.2297-03	.5000-01	.3180	545.8
63	191.25	.96500	769.00	.2400-02	.2970-02	.4700-02	.9130	.1652-03	.2206-03	.4900-01	.3110	545.8
63	191.25	.97000	770.00	.2300-02	.2900-02	.4600-02	.9130	.1582-03	.2115-03	.4800-01	.3040	545.8
63	191.25	.97500	771.00	.2200-02	.2830-02	.4500-02	.9130	.1512-03	.2024-03	.4700-01	.2970	545.8
63	191.25	.98000	772.00	.2100-02	.2760-02	.4400-02	.9130	.1442-03	.1933-03	.4600-01	.2900	545.8
63	191.25	.98500	773.00	.2000-02	.2690-02	.4300-02	.9130	.1372-03	.1842-03	.4500-01	.2830	545.8
63	191.25	.99000	774.00	.1900-02	.2620-02	.4200-02	.9130	.1302-03	.1751-03	.4400-01	.2760	545.8
63	191.25	.99500	775.00	.1800-02	.2550-02	.4100-02	.9130	.1232-03	.1660-03	.4300-01	.2690	545.8
63	191.25	1.00000	776.00	.1700-02	.2480-02	.4000-02	.9130	.1162-03	.1569-03	.4200-01	.2620	545.8

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F19)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
63	197.00	.33000	685.00	.4400-02	.3600-02	.5300-02	.9130	.1597-03	.2351-03	.3200-0	.2170	542.3
63	197.00	.34000	686.00	.5300-02	.4300-02	.6400-02	.9130	.1939-03	.2855-03	.3900-01	.2630	542.3
63	197.00	.35000	687.00	.4400-02	.3600-02	.5300-02	.9130	.1620-03	.2385-03	.3300-01	.2200	542.2
63	197.00	.36000	688.00	.3600-02	.2900-02	.4300-02	.9130	.1313-03	.1933-03	.2600-01	.1760	542.2
63	197.00	.37000	689.00	.2400-02	.2000-02	.2900-02	.9130	.8837-04	.1302-03	.1800-01	.1200	542.4
63	197.00	.50000	691.00	.1360-01	.1100-01	.1640-01	.9130	.4934-03	.7329-03	.9800-01	.6570	545.9
63	197.00	.60000	692.00	.2630-01	.2140-01	.3180-01	.9130	.9585-03	.1423-02	.1900	1.226	545.8
63	197.00	.70000	693.00	.4460-01	.3620-01	.5400-01	.9130	.1620-02	.2416-02	.3180	2.158	547.6
63	197.00	.80000	694.00	.3060-01	.3220-01	.4780-01	.9130	.1441-02	.2141-02	.2650	1.793	546.1
63	197.00	.87000	695.00	.4960-01	.4020-01	.5990-01	.9130	.1801-02	.2680-02	.3560	2.287	546.7
63	197.00	.92600	696.00	.4610-01	.3740-01	.5570-01	.9130	.1676-02	.2492-02	.3310	2.423	546.5
63	197.00	.95000	697.00	.4460-01	.3620-01	.5400-01	.9130	.1620-02	.2416-02	.3180	2.158	546.4
63	209.80	.15000-01	697.00	.1044	.8480-01	.1261	.9130	.3796-02	.5645-02	.7500	5.151	553.8
64	209.80	.30000-01	698.00	.1970	.1585	.2065	.9406	.7102-02	.9248-02	1.354	9.179	559.7
64	209.80	.60000-01	699.00	.2481	.1981	.2670	.9360	.8875-02	.1196-01	1.639	10.35	559.7
64	209.80	.70000-01	700.00	.2782	.2157	.3144	.9302	.9664-02	.1408-01	1.601	10.65	558.7
64	209.80	.10000+00	701.00	.1160	.9360-01	.1333	.9229	.4195-02	.5970-02	.8100	5.150	551.3
64	209.80	.15000	702.00	.3820-01	.3120-01	.4540-01	.9149	.1398-02	.2033-02	.2830	2.033	541.6
64	209.80	.20000	703.00	.1370-01	.1120-01	.1640-01	.9130	.5031-03	.7339-03	.1040	.6990	538.2
64	209.80	.30000	704.00	.4700-02	.3800-02	.5600-02	.9130	.1728-03	.2520-03	.3600-01	.2550	538.4
64	209.80	.35000	705.00	.5800-02	.4500-02	.6600-02	.9130	.2007-03	.2916-03	.4200-01	.2870	538.6
64	209.80	.37500	706.00	.4300-02	.3500-02	.5100-02	.9130	.1570-03	.2279-03	.3300-01	.2200	538.1
64	209.80	.50000	707.00	.9700-02	.7900-02	.1160-01	.9130	.3545-03	.5187-03	.7200-01	.4880	539.9
64	209.80	.70000	709.00	.2530-01	.2070-01	.3020-01	.9130	.9274-03	.1354-02	.1900	1.219	539.0
64	209.80	.80000	710.00	.3320-01	.2730-01	.3970-01	.9130	.1222-02	.1776-02	.2530	1.587	537.0
64	209.80	.87000	711.00	.3620-01	.2970-01	.4330-01	.9130	.1329-02	.1942-02	.2730	1.731	539.1
64	209.80	.92600	712.00	.3720-01	.3040-01	.4450-01	.9130	.1364-02	.1995-02	.2790	2.035	539.9
64	217.70	.30000-01	714.00	.2122	.1702	.2219	.9412	.7626-02	.9941-02	1.434	9.711	556.3
64	217.70	.50000-01	715.00	.2652	.2035	.2739	.9366	.9116-02	.1227-01	1.675	10.85	560.6
64	217.70	.70000-01	716.00	.2936	.2256	.3522	.9307	.1011-01	.1488-01	1.624	10.68	559.7
64	217.70	.10000+00	717.00	.1123	.9070-01	.1287	.9234	.4061-02	.5763-02	.7850	5.078	551.2
64	217.70	.15000	718.00	.4710-01	.3840-01	.5590-01	.9152	.1720-02	.2503-02	.3470	2.548	542.5
64	217.70	.20000	719.00	.1600-01	.1310-01	.1910-01	.9130	.5871-03	.8542-03	.1220	.8240	537.3
64	217.70	.30000	720.00	.4400-02	.3600-02	.5300-02	.9130	.1628-03	.2374-03	.3400-01	.2410	538.2
64	217.70	.35000	721.00	.3600-02	.3000-02	.4300-02	.9130	.1342-03	.1947-03	.2800-01	.1950	536.0
64	217.70	.37500	722.00	.2400-02	.2000-02	.2900-02	.9130	.8847-04	.1283-03	.1800-01	.1290	535.8
64	217.70	.50000	723.00	.6200-02	.5100-02	.7400-02	.9130	.2273-03	.3321-03	.4700-01	.3240	539.1
64	217.70	.60000	724.00	.2500-01	.2050-01	.2980-01	.9130	.9192-03	.1336-02	.1910	1.227	536.7
64	217.70	.70000	725.00	.2210-01	.1810-01	.2640-01	.9130	.8103-03	.1181-02	.1670	1.068	538.0
64	217.70	.80000	726.00	.2790-01	.2290-01	.3330-01	.9130	.1027-02	.1490-02	.2140	1.350	536.2
64	217.70	.87000	727.00	.3470-01	.2850-01	.4150-01	.9130	.1275-02	.1860-02	.2630	1.688	538.3
64	217.70	.92600	728.00	.3200-01	.2620-01	.3830-01	.9130	.1172-02	.1714-02	.2400	1.750	539.7

ORIGINAL PAGE IS
OF POOR QUALITY

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = 10.00 BETA = -6.000 GRIT = 3.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
316	2.500	4.836	10.05	6.000	-31.00	32.00	1.875	662.0	294.1	8.205	2101.	.5349-03
317	2.500	4.833	10.04	6.000	-31.00	32.10	1.877	663.0	294.5	8.212	2102.	.5349-03
318	2.500	4.807	10.04	6.000	-31.00	31.90	1.867	663.0	294.5	8.169	2102.	.5320-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
316	.2324-06	.6260-01	.6976-02
317	.2326-06	.6264-01	.6977-02
318	.2327-06	.6248-01	.6996-02

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
317	.00000	.30000-02	730.00	.6059	.3276	.3720	.9870	.2052-01	.2330-01	1.480	9.941	590.4
317	.00000	.10300-01	731.00	.5035	.2973	.5417	.9449	.1862-01	.3393-01	1.506	10.20	581.6
317	.00000	.15000-01	732.00	.5696	.3150	.6206	.9449	.1973-01	.3888-01	1.462	9.744	588.4
317	.00000	.20000-01	733.00	.7789	.3387	.3970	.9870	.2121-01	.2487-01	1.243	8.298	603.9
317	.00000	.25000-01	734.00	1.703	.4264	.5296	.9870	.2671-01	.3318-01	1.180	7.751	618.3
317	.00000	.30000-01	735.00	1.196	.4613	.5490	.9870	.2890-01	.3439-01	1.558	10.35	608.6
317	.00000	.40000-01	737.00	.7292	.3863	.4402	.9870	.2420-01	.2757-01	1.705	10.87	592.1
317	.00000	.45000-01	738.00	.8094	.4141	.4743	.9870	.2594-01	.2971-01	1.759	11.37	594.7
317	.00000	.60000-01	739.00	.8397	.3598	.4366	.9846	.2254-01	.2735-01	1.307	8.533	604.6
317	.00000	.70000-01	740.00	.7891	.3618	.4552	.9810	.2286-01	.2852-01	1.396	9.122	601.4
317	.00000	.80000-01	741.00	.6548	.3108	.4137	.9776	.1965-01	.2591-01	1.256	8.897	599.2
317	.00000	.10000+00	742.00	.5217	.2828	.3839	.9713	.1772-01	.2405-01	1.282	8.380	590.2
317	.00000	.12500	743.00	.4294	.2154	.3350	.9642	.1349-01	.2098-01	.8970	6.361	596.1
317	.00000	.15000	744.00	.3783	.2074	.3337	.9581	.1299-01	.2090-01	.9530	6.485	589.2
317	.00000	.17500	745.00	.2803	.1545	.2686	.9531	.1031-01	.1682-01	.8270	6.105	582.3
317	.00000	.20000	746.00	.2378	.1490	.2402	.9491	.9330-02	.1505-01	.8270	5.840	573.8
317	.00000	.21500	746.00	.2170	.1369	.2242	.9473	.8574-02	.1404-01	.7690	5.264	572.8
317	.00000	.23000	748.00	.1869	.1176	.1967	.9457	.7368-02	.1232-01	.6590	4.805	573.1

DATE 03 JUN 76

AEDC V41A-A4A (1H-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F20)

1H41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
317	.00000	.24000	749.00	.1777	.1125	.1888	.9449	.7047-02	.1183-01	.6370	4.740	572.2
317	.00000	.25000	750.00	.1072	.6930-01	.1135	.9449	.4343-02	.7108-02	.4070	3.260	568.7
317	.00000	.30000	751.00	.1735	.1123	.1837	.9449	.7033-02	.1151-01	.6600	4.284	568.7
317	.00000	.40000	753.00	.1790	.1176	.1890	.9449	.7369-02	.1184-01	.7120	4.537	565.8
317	.00000	.50000	754.00	.1457	.9230-01	.1548	.9449	.5783-02	.9699-02	.5230	3.377	572.1
317	.00000	.60000	755.00	.1666	.1073	.1765	.9449	.6719-02	.1106-01	.6250	3.962	569.5
317	.00000	.70000	756.00	.1593	.9970-01	.1696	.9449	.6245-02	.1062-01	.5530	3.603	573.9
317	.00000	.80000	757.00	.1524	.9590-01	.1621	.9449	.6006-02	.1015-01	.5370	3.318	573.2
317	.00000	.90000	758.00	.1058	.6540-01	.1129	.9449	.4094-02	.7070-02	.3550	2.263	575.8
317	55.000	.22000	759.00	.2216	.1387	.2295	.9471	.8688-02	.1437-01	.7690	5.647	574.0
317	55.000	.25000	760.00	.1331	.85 0-01	.1408	.9452	.5330-02	.8817-02	.4890	3.787	570.7
317	55.000	.27000	761.00	.1381	.8530-01	.1468	.9452	.5343-02	.9198-02	.4630	3.393	575.9
317	55.000	.30000	762.00	.1732	.1103	.1881	.9452	.7220-02	.1178-01	.6770	4.026	568.7
317	55.000	.32000	763.00	.1846	.1211	.1944	.9452	.7583-02	.1218-01	.7300	4.276	566.3
317	55.000	.34000	764.00	.1863	.1226	.1961	.9452	.7677-02	.1228-01	.7430	4.366	565.7
317	55.000	.36000	765.00	.1799	.1185	.1892	.9452	.7424-02	.1185-01	.7210	4.295	565.4
317	55.000	.38000	766.00	.1815	.1201	.1909	.9452	.7525-02	.1196-01	.7370	4.440	564.6
317	55.000	.40000	767.00	.1720	.1132	.1810	.9452	.7093-02	.1134-01	.6880	4.259	565.5
317	67.500	.23000	769.00	.1974	.1254	.2082	.9454	.7856-02	.1304-01	.7140	5.246	571.7
317	67.500	.25000	769.00	.1178	.7610-01	.1250	.9447	.4765-02	.7833-02	.4460	3.430	569.0
317	67.500	.27000	770.00	.1425	.8850-01	.1524	.9447	.5541-02	.9547-02	.4840	3.481	575.2
317	67.500	.29000	771.00	.1218	.7900-01	.1293	.9447	.4948-02	.8100-02	.4660	2.857	568.3
317	67.500	.30000	772.00	.1674	.1082	.1777	.9447	.6780-02	.1113-01	.6360	3.842	568.9
317	67.500	.31000	773.00	.1736	.1129	.1842	.9447	.7072-02	.1154-01	.6700	4.017	567.8
317	67.500	.32000	774.00	.1769	.1157	.1875	.9447	.7248-02	.1174-01	.6940	4.131	566.8
317	67.500	.32500	775.00	.1699	.1114	.1800	.9447	.6981-02	.1127-01	.6720	4.012	566.3
317	67.500	.33000	776.00	.1738	.1138	.1842	.9447	.7128-02	.1154-01	.6830	4.091	566.6
317	67.500	.33500	777.00	.1725	.1135	.1826	.9447	.7111-02	.1144-01	.6890	4.127	565.6
317	67.500	.34000	778.00	.1678	.1107	.1775	.9447	.6934-02	.1112-01	.6750	4.044	565.2
317	67.500	.34500	779.00	.1680	.1109	.1778	.9447	.6945-02	.1113-01	.6760	4.063	565.1
317	67.500	.35000	780.00	.1699	.1124	.1796	.9447	.7042-02	.1125-01	.6900	4.155	564.6
317	67.500	.36000	782.00	.1687	.1115	.1784	.9447	.6983-02	.1118-01	.6820	4.121	564.8
317	67.500	.36500	783.00	.1679	.1115	.1774	.9447	.6982-02	.1111-01	.6880	4.147	564.0
317	67.500	.37000	784.00	.1606	.1067	.1697	.9447	.6684-02	.1063-01	.6600	3.997	563.8
317	67.500	.37500	785.00	.1673	.1108	.1769	.9447	.6937-02	.1108-01	.6800	4.155	564.5
317	67.500	.38000	786.00	.1601	.1059	.1693	.9447	.6634-02	.1061-01	.6490	3.975	564.7
317	67.500	.39000	787.00	.1649	.1089	.1745	.9447	.6822-02	.1093-01	.6650	4.086	565.0
317	67.500	.40000	788.00	.1803	.1188	.1908	.9447	.7441-02	.1195-01	.7230	4.476	565.4
317	67.500	.50000	789.00	.1624	.1033	.1729	.9447	.6468-02	.1083-01	.5890	3.727	571.5
317	67.500	.60000	790.00	.1696	.1093	.1802	.9447	.6846-02	.1129-01	.6380	4.138	569.4
317	67.500	.70000	791.00	.1569	.9700-01	.1679	.9447	.6073-02	.1052-01	.5270	3.667	575.8
317	67.500	.80000	792.00	.1536	.9740-01	.1636	.9447	.6100-02	.1025-01	.5520	3.427	572.0
317	67.500	.90000	793.00	.1015	.6270-01	.1086	.9447	.3930-02	.6805-02	.3410	2.166	575.8

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
317	78.000	.27000	794.00	.1427	.8900-01	.1536	.9441	.5576-02	.9620-02	.4910	3.452	574.5
317	78.000	.29000	795.00	.1179	.7750-01	.1256	.9441	.4853-02	.7869-02	.4680	2.859	566.0
318	78.000	.31000	796.00	.1465	.9450-01	.1566	.9441	.5903-02	.9786-02	.5510	3.300	569.4
318	78.000	.31000	797.00	.1499	.9700-01	.1601	.9441	.6060-02	.1000-01	.5690	3.412	568.7
318	78.000	.32500	799.00	.1508	.9860-01	.1608	.9441	.6159-02	.1005-01	.5890	3.525	567.0
318	78.000	.33000	800.00	.1551	.1009	.1655	.9441	.6303-02	.1034-01	.5970	3.573	567.9
318	78.000	.33500	801.00	.1528	.1001	.1629	.9441	.6256-02	.1018-01	.6010	3.597	566.6
318	78.000	.34000	802.00	.1567	.1022	.1671	.9441	.6388-02	.1044-01	.6090	3.646	567.2
318	78.000	.34500	803.00	.1399	.9200-01	.1490	.9441	.5747-02	.9308-02	.5560	3.339	565.9
318	78.000	.35000	804.00	.1465	.9610-01	.1561	.9441	.6005-02	.9751-02	.5790	3.473	566.3
318	78.000	.35500	805.00	.1437	.9470-01	.1530	.9441	.5917-02	.9560-02	.5750	3.451	565.5
318	78.000	.36000	806.00	.1444	.9500-01	.1538	.9441	.5934-02	.9609-02	.5740	3.457	565.9
318	78.000	.36500	807.00	.1384	.9090-01	.1475	.9441	.5676-02	.9215-02	.5470	3.302	566.3
319	78.000	.37000	808.00	.1480	.9720-01	.1576	.9441	.6075-02	.9847-02	.5870	3.553	566.0
318	78.000	.37500	809.00	.1566	.1027	.1668	.9441	.6419-02	.1042-01	.6190	3.744	566.3
318	78.000	.38000	810.00	.1470	.9670-01	.1566	.9441	.6041-02	.9783-02	.5850	3.558	565.9
318	78.000	.39000	811.00	.1492	.9740-01	.1591	.9441	.6083-02	.9941-02	.5800	3.538	567.3
318	78.000	.40000	812.00	.1053	.7130-01	.1116	.9441	.4452-02	.6971-02	.4560	2.792	560.2
318	90.000	.20000	813.00	.2970-01	.2090-01	.3130-01	.9441	.1306-02	.1957-02	.1460	1.056	551.1
318	90.000	.24000	814.00	.1289	.8190-01	.1391	.9436	.5115-02	.8689-02	.4650	3.712	571.8
318	90.000	.27000	816.00	.1145	.7170-01	.1240	.9436	.4479-02	.7748-02	.3970	2.781	574.1
318	90.000	.29000	817.00	.1143	.7450-01	.1227	.9436	.4652-02	.7663-02	.4420	2.720	567.6
318	90.000	.30000	818.00	.1425	.9170-01	.1534	.9436	.5732-02	.9582-02	.5330	3.221	569.6
318	90.000	.31000	819.00	.1562	.1018	.1676	.9436	.6361-02	.1047-01	.6050	3.633	567.4
318	90.000	.32000	820.00	.1405	.9260-01	.1505	.9436	.5786-02	.9400-02	.5620	3.369	565.4
318	90.000	.32500	821.00	.1415	.9320-01	.1516	.9436	.5824-02	.9471-02	.5650	3.375	565.6
318	90.000	.33000	822.00	.1415	.9390-01	.1513	.9436	.5865-02	.9450-02	.5780	3.462	564.1
318	90.000	.34000	824.00	.1380	.9180-01	.1474	.9436	.5738-02	.9212-02	.5690	3.399	563.5
318	90.000	.34500	825.00	.1294	.8650-01	.1382	.9436	.5406-02	.8634-02	.5400	3.240	562.7
318	90.000	.35000	826.00	.1356	.9010-01	.1450	.9436	.5629-02	.9057-02	.5560	3.330	563.9
318	90.000	.36000	828.00	.1353	.8980-01	.1447	.9436	.5608-02	.9041-02	.5520	3.298	564.2
318	90.000	.36500	829.00	.1338	.8890-01	.1431	.9436	.5553-02	.8937-02	.5480	3.284	564.0
318	90.000	.37000	830.00	.1294	.8660-01	.1382	.9436	.5410-02	.8633-02	.5410	3.256	562.6
318	90.000	.37500	831.00	.1308	.8720-01	.1397	.9436	.5449-02	.8731-02	.5420	3.275	563.2
318	90.000	.38000	832.00	.1276	.8520-01	.1363	.9436	.5323-02	.8514-02	.5310	3.209	562.9
318	90.000	.39000	833.00	.1306	.8690-01	.1396	.9436	.5431-02	.8723-02	.5380	3.286	563.6
318	90.000	.40000	834.00	.1338	.8900-01	.1430	.9436	.5560-02	.8935-02	.5500	3.370	563.7
318	90.000	.50000	835.00	.1321	.8490-01	.1422	.9436	.5302-02	.8885-02	.4910	3.069	570.0
318	90.000	.60000	836.00	.1300	.8510-01	.1394	.9436	.5319-02	.8708-02	.5110	3.368	566.6
318	90.000	.70000	837.00	.1173	.7490-01	.1265	.9436	.4678-02	.7904-02	.4280	2.979	571.1
318	90.000	.80000	838.00	.1180	.7700-01	.1267	.9436	.4809-02	.7915-02	.4580	2.816	567.4
318	90.000	.90000	839.00	.7660-01	.4900-01	.8260-01	.9436	.3059-02	.5159-02	.2810	1.773	570.9
318	112.50	.23000	840.00	.1006	.7220-01	.1180	.9432	.4513-02	.7372-02	.4380	3.499	565.5

(IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
318	112.50	.25000	841.00	.6640-01	.4420-01	.7140-01	.9430	.2761-02	.4461-02	.2730	2.102	563.6
318	112.50	.30000	843.00	.1134	.7560-01	.1219	.9430	.4724-02	.7615-02	.4700	2.771	563.2
318	112.50	.33000	844.00	.1168	.7890-01	.1252	.9430	.4930-02	.7819-02	.5040	3.015	560.5
318	112.50	.35000	845.00	.1078	.7330-01	.1153	.9430	.4578-02	.7204-02	.4740	2.887	559.1
318	112.50	.37000	846.00	.1061	.7200-01	.1136	.9430	.4501-02	.7099-02	.4640	2.842	559.5
318	112.50	.40000	847.00	.1049	.7170-01	.1121	.9430	.4478-02	.7004-02	.4690	2.904	558.0
318	112.50	.45000	848.00	.9620-01	.6570-01	.1028	.9430	.4104-02	.6423-02	.4290	2.681	558.1
318	112.50	.50000	849.00	.9340-01	.6230-01	.1003	.9430	.3891-02	.6268-02	.3870	2.470	563.1
318	112.50	.55000	850.00	.6570-01	.4400-01	.7060-01	.9430	.2750-02	.4411-02	.2760	1.627	562.4
318	112.50	.60000	851.00	.8980-01	.6080-01	.9620-01	.9430	.3801-02	.6011-02	.3900	2.598	559.9
318	112.50	.65000	852.00	.9150-01	.6190-01	.9810-01	.9430	.3866-02	.6128-02	.3950	2.672	560.4
318	112.50	.70000	853.00	.7750-01	.5160-01	.8330-01	.9430	.3226-02	.5207-02	.3200	2.227	563.4
318	112.50	.75000	854.00	.5490-01	.3660-01	.5910-01	.9430	.2285-02	.3691-02	.2260	1.456	563.5
318	112.50	.80000	855.00	.7700-01	.5210-01	.8260-01	.9430	.3252-02	.5158-02	.3320	2.147	560.5
318	112.50	.90000	856.00	.4880-01	.3230-01	.5250-01	.9430	.2020-02	.3280-02	.1980	1.276	564.4
318	125.40	.84000	857.00	.6060-01	.4160-01	.6470-01	.9430	2601-02	.4043-02	.2760	1.594	556.7
318	125.40	.85000	858.00	.6060-01	.4150-01	.6480-01	.9430	.2594-02	.4047-02	.2730	1.686	557.5
318	125.40	.86000	859.00	.6210-01	.4240-01	.6650-01	.9430	.2651-02	.4152-02	.2770	1.727	558.1
318	125.40	.87000	860.00	.6090-01	.4150-01	.6510-01	.9430	.2593-02	.4069-02	.2700	1.687	558.5
318	125.40	.88000	861.00	.6060-01	.4100-01	.6490-01	.9430	.2564-02	.4057-02	.2630	1.643	560.0
318	125.40	.89000	862.00	.6100-01	.4120-01	.6540-01	.9430	.2573-02	.4084-02	.2630	1.649	560.5
318	125.40	.90000	863.00	.4780-01	.3210-01	.5120-01	.9430	.2006-02	.3202-02	.2030	1.280	561.5
318	125.40	.91000	864.00	.3170-01	.2150-01	.3400-01	.9430	.1342-02	.2121-02	.1380	.9970	559.8
318	125.40	.92600	865.00	.3730-01	.2460-01	.4020-01	.9430	.1535-02	.2514-02	.1490	1.069	565.6
318	129.30	.80000	866.00	.5650-01	.3870-01	.6030-01	.9430	.2420-02	.3769-02	.2560	1.597	557.1
318	129.30	.81000	867.00	.5780-01	.3970-01	.6180-01	.9430	.2481-02	.3860-02	.2620	1.630	556.9
318	129.30	.82000	868.00	.5740-01	.3950-01	.6130-01	.9430	.2470-02	.3829-02	.2630	1.634	556.3
318	129.30	.83000	869.00	.5950-01	.4080-01	.6360-01	.9430	.2550-02	.3976-02	.2680	1.673	557.3
318	135.00	.40000-01	870.00	.4783	.2745	.3723	.9692	.1715-01	.2326-01	1.333	8.411	584.9
318	135.00	.50000-01	871.00	.5695	.3255	.4593	.9660	.2034-01	.2863-01	1.573	9.864	585.3
318	135.00	.60000-01	872.00	.4946	.2606	.4006	.9631	.1628-01	.2503-01	1.140	7.401	592.6
318	135.00	.70000-01	873.00	.5741	.2604	.4222	.9604	.1627-01	.2638-01	1.115	7.411	594.1
318	135.00	.10000+00	875.00	.3209	.1935	.3066	.9536	.1209-01	.1915-01	1.010	6.519	579.1
318	135.00	.15000	876.00	.2054	.1263	.2156	.9462	.7890-02	.1347-01	.6790	4.892	576.6
318	135.00	.20000	877.00	.1323	.8770-01	.1421	.9432	.5478-02	.8875-02	.5380	3.597	564.4
318	135.00	.35000	878.00	.8450-01	.5830-01	.9010-01	.9430	.3645-02	.5630-02	3900	2.416	555.5.
318	135.00	.40000	879.00	.7900-01	.5470-01	.8430-01	.9430	.3418-02	.5265-02	.3680	2.323	555.0
318	135.00	.50000	880.00	.6090-01	.4170-01	.6510-01	.9430	.2602-02	.4068-02	.2730	1.863	557.8
318	135.00	.55000	881.00	.4820-01	.3310-01	.5150-01	.9430	.2070-02	.3219-02	.2190	1.453	556.8
318	135.00	.60000	882.00	.6070-01	.4200-01	.6470-01	.9430	.2624-02	.4044-02	.2820	1.890	555.0
318	135.00	.65000	883.00	.5730-01	.3990-01	.6100-01	.9430	.2494-02	.3811-02	.2730	1.855	553.3
318	135.00	.70000	884.00	.5020-01	.3440-01	.5370-01	.9430	.2148-02	.3352-02	.2260	1.596	557.5
318	135.00	.75000	885.00	.3950-01	.2690-01	.4230-01	.9430	.1681-02	.2642-02	.1750	1.093	558.8

ORIGINAL PAGE IS
OF POOR QUALITY

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F20)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TH DEG. R
318	135.00	.80000	886.00	.5160-01	.3560-01	.5500-01	.9430	.2224-02	.3437-02	.2380	1.489	555.6
318	135.00	.84000	887.00	.7590-01	.5980-01	.9460-01	.9130	.2678-02	.4234-02	.0000	.0000	244.7
316	180.00	.40000-01	600.00	.3031	.1888	.2712	.9597	.1182-01	.1698-01	1.037	6.578	574.1
316	180.00	.50000-01	601.00	.3687	.2218	.3372	.9571	.1389-01	.2111-01	1.153	7.319	578.9
316	180.00	.60000-01	602.00	.4033	.2267	.3759	.9547	.1419-01	.2353-01	1.073	7.006	586.2
316	180.00	.70000-01	603.00	.4729	.2435	.4513	.9525	.1524-01	.2825-01	1.039	6.930	593.6
316	180.00	.80000-01	604.00	.4056	.2250	.4013	.9507	.1409-01	.2512-01	1.047	6.674	587.5
316	180.00	.10000+00	605.00	.2351	.1464	.2420	.9476	.9166-02	.1515-01	.3040	5.694	574.1
316	180.00	.15000	606.00	.1362	.8630-01	.1472	.9435	.5400-02	.9214-02	.4870	3.500	571.5
316	180.00	.20000	607.00	.9660-01	.6460-01	.1038	.9430	.4043-02	.6496-02	.4040	2.616	561.9
316	180.00	.21000	608.00	.8280-01	.5570-01	.8890-01	.9430	.3490-02	.5564-02	.3530	2.423	560.6
316	180.00	.22000	609.00	.7070-01	.4760-01	.7580-01	.9430	.2978-02	.4748-02	.3010	2.226	560.6
316	180.00	.30000	610.00	.6020-01	.4120-01	.6440-01	.9430	.2579-02	.4031-02	.2700	1.840	557.1
316	180.00	.35000	611.00	.5920-01	.4080-01	.6320-01	.9430	.2555-02	.3955-02	.2720	1.805	555.3
316	180.00	.36000	612.00	.6100-01	.4210-01	.6510-01	.9430	.2636-02	.4078-02	.2810	1.882	555.1
316	180.00	.37500	614.00	.6240-01	.4290-01	.6660-01	.9430	.2688-02	.4168-02	.2850	1.910	555.6
316	180.00	.38000	615.00	.6210-01	.4290-01	.6630-01	.9430	.2686-02	.4151-02	.2870	1.922	554.9
316	180.00	.38500	616.00	.6260-01	.4320-01	.6690-01	.9430	.2704-02	.4185-02	.2880	1.929	555.2
316	180.00	.39000	617.00	.6290-01	.4350-01	.6700-01	.9430	.2725-02	.4196-02	.2930	1.959	554.2
316	180.00	.39500	618.00	.6100-01	.4210-01	.6510-01	.9430	.2638-02	.4073-02	.2820	1.896	554.8
316	180.00	.40000	619.00	.6050-01	.4180-01	.6450-01	.9430	.2615-02	.4038-02	.2800	1.869	554.8
316	180.00	.40500	620.00	.6250-01	.4320-01	.6670-01	.9430	.2704-02	.4177-02	.2890	1.937	554.8
316	180.00	.41000	621.00	.6050-01	.4170-01	.6460-01	.9430	.2612-02	.4044-02	.2780	1.863	555.3
316	180.00	.41500	622.00	.6270-01	.4330-01	.6690-01	.9430	.2708-02	.4187-02	.2890	1.930	555.0
316	180.00	.42500	624.00	.6530-01	.4480-01	.6980-01	.9430	.2802-02	.4370-02	.2950	1.965	556.7
316	180.00	.43000	625.00	.6290-01	.4320-01	.6720-01	.9430	.2704-02	.4207-02	.2850	1.910	556.2
316	180.00	.44000	626.00	.6100-01	.4200-01	.6510-01	.9430	.2631-02	.4078-02	.2800	1.872	555.5
316	180.00	.44500	627.00	.6100-01	.4200-01	.6520-01	.9430	.2627-02	.4081-02	.2780	1.879	555.9
316	180.00	.45000	628.00	.6110-01	.4190-01	.6530-01	.9430	.2625-02	.4088-02	.2770	1.867	556.4
316	180.00	.45500	629.00	.5760-01	.3980-01	.6150-01	.9430	.2489-02	.3847-02	.2660	1.824	555.0
316	180.00	.46000	630.00	.6030-01	.4160-01	.6440-01	.9430	.2603-02	.4023-02	.2770	1.856	555.2
316	180.00	.47000	631.00	.5930-01	.4070-01	.6340-01	.9430	.2548-02	.3966-02	.2690	1.798	556.3
316	180.00	.48000	632.00	.5740-01	.3950-01	.6130-01	.9430	.2471-02	.3838-02	.2620	1.761	555.9
316	180.00	.49000	633.00	.5520-01	.3800-01	.5890-01	.9430	.2381-02	.3687-02	.2540	1.723	555.3
316	180.00	.50000	634.00	.5030-01	.3490-01	.5360-01	.9430	.2187-02	.3356-02	.2370	1.651	553.5
316	180.00	.55000	635.00	.4060-01	.2830-01	.4330-01	.9430	.1769-02	.2711-02	.1920	1.272	553.2
316	180.00	.60000	636.00	.5090-01	.3510-01	.5440-01	.9430	.2199-02	.3403-02	.2340	1.505	555.2
316	180.00	.65000	637.00	.6260-01	.4300-01	.6690-01	.9430	.2692-02	.4188-02	.2840	1.829	556.2
316	180.00	.70000	638.00	.6900-01	.4710-01	.7380-01	.9430	.2948-02	.4617-02	.3080	2.054	557.5
316	180.00	.75000	639.00	.5650-01	.3870-01	.6030-01	.9430	.2421-02	.3777-02	.2540	1.632	556.8
316	180.00	.80000	640.00	.6870-01	.4710-01	.7340-01	.9430	.2945-02	.4596-02	.3090	1.929	556.8
316	180.00	.85000	641.00	.5870-01	.3990-01	.6290-01	.9430	.2499-02	.3938-02	.2580	1.622	558.5
316	180.00	.86000	642.00	.5710-01	.3880-01	.6120-01	.9430	.2430-02	.3831-02	.2510	1.597	558.7

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F20)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
316	180.00	.87000	643.00	.5450-01	.3680-01	.5840-01	.9430	.2305-02	.3659-02	.2350	1.505	559.9
316	180.00	.88000	644.00	.4810-01	.3240-01	.5160-01	.9430	.2031-02	.3231-02	.2060	1.333	560.2
316	180.00	.89000	645.00	.4650-01	.3120-01	.4990-01	.9430	.1955-02	.3126-02	.1970	1.287	561.1
316	180.00	.90000	646.00	.3100-01	.2100-01	.3320-01	.9430	.1317-02	.2076-02	.1360	.9090	558.6
316	180.00	.95000	649.00	.4870-01	.3200-01	.5250-01	.9430	.2005-02	.3285-02	.1940	1.389	565.0
316	191.25	.35000	650.00	.6520-01	.4480-01	.6970-01	.9430	.2802-02	.4364-02	.2950	1.976	556.4
316	191.25	.36000	651.00	.6380-01	.4390-01	.6810-01	.9430	.2750-02	.4263-02	.2920	1.962	555.5
316	191.25	.37000	652.00	.5930-01	.4090-01	.6330-01	.9430	.2560-02	.3962-02	.2730	1.827	555.2
316	191.25	.37500	653.00	.5840-01	.4030-01	.6230-01	.9430	.2522-02	.3900-02	.2690	1.807	555.1
316	191.25	.38000	654.00	.5930-01	.4100-01	.6320-01	.9430	.2564-02	.3957-02	.2750	1.845	554.7
316	191.25	.38500	655.00	.5880-01	.4050-01	.6270-01	.9430	.2536-02	.3926-02	.2700	1.814	555.2
316	191.25	.39000	656.00	.5520-01	.3800-01	.5900-01	.9430	.2381-02	.3692-02	.2530	1.698	555.6
316	191.25	.39500	657.00	.6070-01	.4180-01	.6480-01	.9430	.2619-02	.4059-02	.2790	1.869	555.5
316	191.25	.40000	658.00	.6120-01	.4200-01	.6540-01	.9430	.2632-02	.4092-02	.2780	1.874	556.1
316	191.25	.41000	660.00	.6170-01	.4240-01	.6590-01	.9430	.2654-02	.4126-02	.2810	1.884	556.1
316	191.25	.41500	661.00	.6080-01	.4190-01	.6490-01	.9430	.2625-02	.4060-02	.2800	1.876	555.1
316	191.25	.42000	662.00	.6500-01	.4450-01	.6950-01	.9430	.2786-02	.4351-02	.2920	1.959	557.0
316	191.25	.42500	663.00	.6220-01	.4260-01	.6650-01	.9430	.2669-02	.4161-02	.2810	1.890	556.6
316	191.25	.43000	664.00	.6020-01	.4130-01	.6430-01	.9430	.2585-02	.4026-02	.2730	1.852	556.4
316	191.25	.44000	665.00	.6430-01	.4400-01	.6870-01	.9430	.2756-02	.4301-02	.2900	1.954	556.8
316	191.25	.45000	666.00	.6190-01	.4250-01	.6610-01	.9430	.2661-02	.4137-02	.2810	1.899	556.1
316	191.25	.45500	667.00	.6010-01	.4130-01	.6420-01	.9430	.2583-02	.4017-02	.2730	1.844	556.1
316	191.25	.46000	668.00	.5520-01	.3810-01	.5900-01	.9430	.2384-02	.3691-02	.2540	1.721	555.3
316	191.25	.47000	669.00	.5950-01	.4090-01	.6360-01	.9430	.2561-02	.3982-02	.2710	1.838	556.1
316	191.25	.48000	670.00	.5710-01	.3930-01	.6090-01	.9430	.2461-02	.3814-02	.2620	1.779	555.4
316	191.25	.49000	671.00	.5470-01	.3750-01	.5840-01	.9430	.2349-02	.3655-02	.2480	1.679	556.2
316	191.25	.50000	672.00	.4530-01	.3130-01	.4840-01	.9430	.1959-02	.3027-02	.2090	1.450	554.9
316	191.25	.60000	673.00	.7810-01	.5210-01	.8390-01	.9430	.3262-02	.5253-02	.3250	2.066	562.3
316	191.25	.70000	674.00	.9510-01	.6180-01	.1029	.9430	.3867-02	.6441-02	.3650	2.458	567.4
316	191.25	.85000	676.00	.1077	.7050-01	.1163	.9430	.4415-02	.7281-02	.4230	2.649	566.0
316	191.25	.86000	677.00	.1088	.7080-01	.1177	.9430	.4432-02	.7367-02	.4200	2.657	567.1
316	191.25	.87000	678 00	.1134	.7310-01	.1228	.9430	.4573-02	.7690-02	.4260	2.715	568.7
316	191.25	.88000	679.00	.1058	.6830-01	.1146	.9430	.4273-02	.7177-02	.3980	2.571	568.6
316	191.25	.89000	680.00	.1113	.7140-01	.1207	.9430	.4470-02	.7555-02	.4130	2.703	569.4
316	191.25	.90000	681.00	.9700-01	.6270-01	.1050	.9430	.3923-02	.6576-02	.3670	2.447	568.3
316	191.25	.91000	682.00	.6030-01	.3970-01	.6500-01	.9430	.2488-02	.4070 02	.2410	1.745	564.8
316	191.25	.92600	683.00	.7140-01	.4600-01	.7740-01	.9430	.2877-02	.4845-02	.2670	1.935	568.9
316	191.25	.95000	684.00	.5900-01	.3890-01	.6370-01	.9430	.2433-02	.3985-02	.2360	1.687	565.0
316	197.00	.33000	685.00	.6720-01	.4610-01	.7180-01	.9430	.2883-02	.4893-02	.3030	2.030	556.5
316	197.00	.34000	686.00	.6890-01	.4720-01	.7370-01	.9430	.2954-02	.4611-02	.3100	2.073	556.9
316	197.00	.35000	687.00	.6610-01	.4530-01	.7060-01	.9430	.2834-02	.4421-02	.2980	1.991	555.8
316	197.00	.36000	688.00	.6450-01	.4430-01	.6890-01	.9430	.2771-02	.4315-02	.2920	1.955	556.4
316	197.00	.37000	689.00	.6060-01	.4180-01	.6460-01	.9430	.2618-02	.4046-02	.2800	1.873	554.9

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F20)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
316	197.00	.37500	690.00	.7880-01	.5430-01	.8420-01	.9430	.3402-02	.5268-02	.3620	2.431	555.3
316	197.00	.50000	691.00	.5860-01	.3980-01	.6280-01	.9430	.2491-02	.3931-02	.2660	1.713	558.8
316	197.00	.60000	692.00	.9000-01	.5960-01	.9690-01	.9430	.3729-02	.6065-02	.3650	2.335	563.9
316	197.00	.70000	693.00	.9940-01	.6380-01	.1078	.9430	.3994-02	.6750-02	.3690	2.474	569.4
316	197.00	.80000	694.00	.1245	.8070-01	.1348	.9430	.5050-02	.8440-02	.4740	2.950	567.9
316	197.00	.87000	695.00	.1346	.8580-01	.1462	.9430	.5371-02	.9155-02	.4900	3.087	570.6
316	197.00	.92600	696.00	.7990-01	.5080-01	.8550-01	.9430	.3179-02	.5354-02	.2950	2.137	559.0
316	209.80	.15000-01	697.00	.1971	.1285	.2131	.9430	.8042-02	.1334-01	.7540	5.192	566.8
317	209.80	.30000-01	698.00	.2906	.1833	.2629	.9590	.1148-01	.1647-01	1.030	6.913	572.8
317	209.80	.50000-01	699.00	.2815	.1833	.2663	.9553	.1148-01	.1668-01	1.091	6.860	567.6
317	209.80	.70000-01	700.00	.3009	.1926	.2966	.9511	.1144-01	.1858-01	.9640	6.419	578.2
317	209.80	.10000+00	701.00	.2072	.1359	.2148	.9466	.8514-02	.1345-01	.6200	5.176	566.2
317	209.80	.15000	702.00	.1158	.7700-01	.1243	.9433	.4821-02	.7786-02	.4760	3.376	563.8
317	209.80	.20000	703.00	.8340-01	.5790-01	.8890-01	.9430	.3625-02	.5569-02	.3320	2.602	554.3
317	209.80	.30000	704.00	.6290-01	.4360-01	.6700-01	.9430	.2733-02	.4195-02	.2960	2.088	554.2
317	209.80	.37500	705.00	.6490-01	.4560-01	.6900-01	.9430	.2855-02	.4325-02	.3170	2.173	551.4
317	209.80	.50000	707.00	.7940-01	.5400-01	.8500-01	.9430	.3384-02	.5325-02	.3510	2.366	558.9
317	209.80	.60000	708.00	.1134	.7620-01	.1217	.9430	.4770-02	.7626-02	.4810	3.044	561.7
317	209.80	.70000	709.00	.1375	.8790-01	.1493	.9430	.5503-02	.9352-02	.5050	3.160	570.8
317	209.80	.80000	710.00	.1542	.9920-01	.1672	.9430	.6213-02	.1047-01	.5770	3.552	569.7
317	209.80	.87000	711.00	.1633	.1033	.1777	.9430	.6473-02	.1113-01	.5840	3.646	572.3
317	209.80	.92600	712.00	.9230-01	.5930-01	.1009	.9430	.3716-02	.6322-02	.3410	2.446	570.9
317	217.70	.15000-01	713.00	.2157	.1436	.2320	.9430	.8994-02	.1458-01	.8310	6.086	553.4
317	217.70	.30000-01	714.00	.2828	.1788	.2558	.9591	.1120-01	.1602-01	1.009	6.780	572.4
317	217.70	.50000-01	715.00	.3041	.1975	.2873	.9554	.1237-01	.1800-01	.1169	7.545	568.0
317	217.70	.70000-01	716.00	.2912	.1766	.2868	.9512	.1106-01	.1736-01	.9320	6.260	578.3
317	217.70	.10000+00	717.00	.2111	.1379	.2189	.9467	.6639-02	.1071-01	.8350	5.895	567.0
317	217.70	.15000	718.00	.1185	.7310-01	.1270	.9433	.4952-02	.7955-02	.4930	3.880	562.9
317	217.70	.20000	719.00	.8390-01	.5650-01	.8930-01	.9430	.3681-02	.5926-02	.3900	2.989	563.2
317	217.70	.30000	720.00	.6210-01	.4310-01	.6620-01	.9430	.2698-02	.4344-02	.2920	2.081	559.3
317	217.70	.37500	721.00	.7340-01	.5160-01	.7800-01	.9430	.3333-02	.5358-02	.3610	2.595	560.3
317	217.70	.50000	722.00	.7200-01	.5100-01	.7650-01	.9430	.3171-02	.5109-02	.3540	2.546	561.0
317	217.70	.60000	723.00	.7100-01	.4990-01	.7580-01	.9430	.3060-02	.4948-02	.3450	2.515	559.2
317	217.70	.70000	724.00	.1041	.7270-01	.1161	.9430	.5433-02	.8772-02	.4900	3.705	568.7
317	217.70	.80000	725.00	.1374	.9679-01	.1461	.9430	.6374-02	.1067-01	.6080	3.717	568.7
317	217.70	.87000	726.00	.1573	.1019	.1703	.9430	.6353-02	.1073-01	.6640	3.838	570.6
317	217.70	.92600	727.00	.1586	.1014	.1722	.9430	.6351-02	.1078-01	.6660	3.828	570.0
317	217.70	.92600	728.00	.9080-01	.5830-01	.9850-01	.9430	.3851-02	.6128-02	.3880	2.728	570.0

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F20)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = 10.00 BETA = -6.000 GRIT = 3.000 RN/L = 5.000

•••TEST CONDITIONS•••

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
286	3.510	4.834	10.06	6.000	-31.00	57.00	.7370	677.0	195.5	6.358	2405.	.3164-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
286	.1574-06	.5535-01	.9251-02

•••TEST DATA•••

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
286	90.000	.40000-01	985.00	.4066	.2709	.3325	.9722	.1499-01	.1841-01	1.520	9.746	575.8
286	90.000	.50000-01	986.00	.5261	.3413	.4379	.9686	.1889-01	.2424-01	1.821	11.58	580.8
286	90.000	.60000-01	987.00	.5181	.3095	.4303	.9651	.1713-01	.2382-01	1.441	9.266	593.1
286	90.000	.80000-01	989.00	.3860	.2390	.3489	.9586	.1318-01	.1931-01	1.164	8.074	588.9
286	90.000	.10000	991.00	.2142	.1420	.2373	.9404	.7861-02	.1314-01	.7900	5.714	576.7
286	135.00	.66000	883.00	.5590-01	.4020-01	.6760-01	.9278	.2221-02	.3732-02	.2680	1.822	556.1
286	135.00	.70000	884.00	.5590-01	.4060-01	.6890-01	.9278	.2243-02	.3808-02	.2672	1.894	558.0
286	135.00	.75000	885.00	.5070-01	.3630-01	.6150-01	.9278	.2007-02	.3397-02	.2403	1.802	557.4
286	135.00	.80000	886.00	.5640-01	.4070-01	.6880-01	.9278	.2248-02	.3758-02	.2732	1.911	555.3
286	135.00	.83000	887.00	.7590-01	.5980-01	.9460-01	.9130	.2678-02	.4234-02	.0000	.0000	244.7
286	135.00	.85000	888.00	.3480-01	.2510-01	.4090-01	.9278	.1330-02	.2263-02	.1760	1.115	550.4
286	135.00	.87000	889.00	.4300-01	.3140-01	.5150-01	.9278	.1743-02	.2849-02	.2180	1.395	551.6
286	135.00	.88000	891.00	.4650-01	.3390-01	.5590-01	.9278	.1869-02	.3093-02	.2310	1.471	553.7
286	135.00	.89000	892.00	.4800-01	.3480-01	.5780-01	.9278	.1924-02	.3201-02	.2360	1.523	554.5
286	135.00	.91000	894.00	.2660-01	.1940-01	.3180-01	.9278	.1071-02	.1763-02	.1340	.9710	552.6
286	135.00	.92000	895.00	.4830-01	.3470-01	.5850-01	.9278	.1922-02	.3243-02	.2310	1.671	557.0
286	135.00	.95000	896.00	.6160-01	.4400-01	.7500-01	.9278	.2434-02	.4151-02	.2880	2.066	559.0
286	135.00	.96000	897.00	.3550-01	.2650-01	.4180-01	.9278	.1465-02	.2312-02	.1960	1.260	543.7
286	142.30	.42000	898.00	.3560-01	.2670-01	.4190-01	.9278	.1478-02	.2316-02	.2000	1.250	542.2
286	142.30	.43500	899.00	.3160-01	.2360-01	.3720-01	.9278	.1308-02	.2058-02	.1760	1.152	543.0
286	142.30	.45000	900.00	.2400-01	.1780-01	.2830-01	.9278	.9846-03	.1567-02	.1300	.8630	545.7
286	142.30	.50000	901.00	.2150-01	.1600-01	.2540-01	.9278	.8867-03	.1407-02	.1170	.7800	544.9

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(R7F20)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
286	142.30	.70000	902.00	.1370-01	.1010-01	.1630-01	.9278	.5591-03	.9020-03	.7200-01	.4900	548.5
286	142.30	.80000	903.00	.2860-01	.2100-01	.3410-01	.9278	.1165-02	.1856-02	.1490	.9450	549.4
286	142.30	.87000	904.00	.4520-01	.3300-01	.5420-01	.9278	.1825-02	.3031-02	.2280	1.435	552.4
286	154.98	.42000	905.00	.3100-01	.2270-01	.3640-01	.9278	.1263-02	.2014-02	.1560	1.117	549.5
286	154.98	.43500	906.00	.2700-01	.2020-01	.3270-01	.9278	.1117-02	.1781-02	.1360	.9760	548.9
286	154.98	.46000	907.00	.2478-01	.2070-01	.3260-01	.9278	.1104-02	.1761-02	.1350	1.007	548.9
286	154.98	.60000	908.00	.1810-01	.1340-01	.2120-01	.9278	.7489-03	.1181-02	.8800-01	.7010	548.4
286	154.98	.83500	913.00	.7050-01	.5140-01	.8250-01	.9278	.3411-02	.5478-02	.4150	1.894	548.6
286	154.98	.94500	914.00	.7130-01	.5170-01	.8290-01	.9278	.3429-02	.5506-02	.4170	1.869	548.8
286	151.98	.30000-01	915.00	.3110	.1999	.3232	.9428	.1498-02	.2377-02	.1800	1.883	548.8
286	151.98	.80000-01	916.00	.2378	.1605	.2615	.9354	.1258-02	.1995-02	.1510	1.555	548.7
286	151.98	.10000+00	917.00	.1663	.1118	.1805	.9278	.8680-03	.1377-02	.1040	1.088	548.5
286	151.98	.12000	918.00	.1290-01	.8750-0	.1420-01	.9278	.6826-03	.1083-02	.8180-01	.8560	548.5
286	151.98	.42000	919.00	.2610-01	.1760-01	.2870-01	.9278	.1380-02	.2190-02	.1650	1.731	548.5
286	151.98	.43500	920.00	.2400-01	.1600-01	.2600-01	.9278	.1269-02	.2014-02	.1520	1.592	548.5
286	151.98	.46000	921.00	.2060-01	.1380-01	.2230-01	.9278	.1089-02	.1729-02	.1300	1.365	548.5
286	151.98	.60000	922.00	.1390-01	.9300-02	.1510-01	.9278	.7355-03	.1167-02	.8810-01	.9230	548.5
286	151.98	.83500	923.00	.6370-01	.4260-01	.6910-01	.9278	.3368-02	.5345-02	.4030	4.227	548.5
286	151.98	.94500	924.00	.6450-01	.4310-01	.6990-01	.9278	.3410-02	.5411-02	.4080	4.279	548.5
286	147.98	.30000-01	925.00	.3110	.2080	.3373	.9428	.1564-02	.2481-02	.1870	1.961	548.5
286	147.98	.80000-01	926.00	.2378	.1605	.2615	.9354	.1258-02	.1995-02	.1510	1.584	548.5
286	147.98	.10000+00	927.00	.1663	.1118	.1805	.9278	.8680-03	.1377-02	.1040	1.088	548.5
286	147.98	.12000	928.00	.1290-01	.8750-0	.1420-01	.9278	.6826-03	.1083-02	.8180-01	.8560	548.5
286	147.98	.42000	929.00	.2610-01	.1760-01	.2870-01	.9278	.1380-02	.2190-02	.1650	1.731	548.5
286	147.98	.43500	930.00	.2400-01	.1600-01	.2600-01	.9278	.1269-02	.2014-02	.1520	1.592	548.5
286	147.98	.46000	931.00	.2060-01	.1380-01	.2230-01	.9278	.1089-02	.1729-02	.1300	1.365	548.5
286	147.98	.60000	932.00	.1390-01	.9300-02	.1510-01	.9278	.7355-03	.1167-02	.8810-01	.9230	548.5
286	147.98	.83500	933.00	.6370-01	.4260-01	.6910-01	.9278	.3368-02	.5345-02	.4030	4.227	548.5
286	147.98	.94500	934.00	.6450-01	.4310-01	.6990-01	.9278	.3410-02	.5411-02	.4080	4.279	548.5

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F20)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
286	168.00	.42000	957.00	.2510-01	.1890-01	.2950-01	.9278	.1046-02	.1630-02	.1430	.9380	540.9
285	169.00	.42500	958.00	.2520-01	.1900-01	.2960-01	.9278	.1049-02	.1635-02	.1430	.9420	540.9
286	168.00	.43000	959.00	.2430-01	.1820-01	.2840-01	.9278	.1009-02	.1574-02	.1380	.9120	540.9
285	169.00	.44000	960.00	.2320-01	.1750-01	.2720-01	.9278	.9667-03	.1507-02	.1320	.8680	540.9
286	168.00	.44500	961.00	.2180-01	.1630-01	.2550-01	.9278	.9029-03	.1413-02	.1230	.8140	540.9
286	168.00	.45500	963.00	.2010-01	.1510-01	.2360-01	.9278	.8344-03	.1308-02	.1130	.7460	540.9
286	168.00	.46000	964.00	.2060-01	.1540-01	.2420-01	.9278	.8513-03	.1337-02	.1160	.7660	540.9
286	168.00	.47000	965.00	.1980-01	.1480-01	.2320-01	.9278	.8190-03	.1286-02	.1110	.7340	540.9
286	168.00	.48000	966.00	.1910-01	.1420-01	.2240-01	.9278	.7891-03	.1239-02	.1070	.7060	540.9
286	168.00	.49000	967.00	.1830-01	.1370-01	.2150-01	.9278	.7589-03	.1191-02	.1030	.6800	540.9
286	168.00	.50000	968.00	.1830-01	.1420-01	.2150-01	.9278	.7589-03	.1191-02	.1030	.6800	540.9
286	168.00	.55000	969.00	.3300-01	.2420-01	.3930-01	.9278	.1369-02	.2149-02	.1860	.1230	540.9
286	168.00	.60000	969.00	.3210-01	.2340-01	.3840-01	.9278	.1332-02	.2090-02	.1810	.1200	540.9
286	168.00	.66000	969.00	.3360-01	.2460-01	.4030-01	.9278	.1393-02	.2186-02	.1890	.1250	540.9
286	168.00	.87000	970.00	.3750-01	.2750-01	.4560-01	.9278	.1576-02	.2474-02	.2140	.1410	540.9
286	168.00	.88000	971.00	.3870-01	.2830-01	.4720-01	.9278	.1626-02	.2553-02	.2210	.1460	540.9
286	168.00	.89000	972.00	.3700-01	.2660-01	.4510-01	.9278	.1471-02	.2309-02	.2000	.1320	540.9
286	168.00	.90000	973.00	.3210-01	.2350-01	.3880-01	.9278	.1083-02	.1701-02	.1470	.9720	540.9
286	168.00	.91000	974.00	.2630-01	.1920-01	.3180-01	.9278	.8878-03	.1394-02	.1210	.7960	540.9
286	168.00	.92000	975.00	.2420-01	.1770-01	.2930-01	.9278	.8172-03	.1283-02	.1110	.7330	540.9
286	168.00	.93000	976.00	.2270-01	.1660-01	.2750-01	.9278	.7665-03	.1203-02	.1040	.6870	540.9
286	168.00	.94000	977.00	.2130-01	.1560-01	.2580-01	.9278	.7192-03	.1129-02	.9770	.6450	540.9
286	168.00	.95000	978.00	.2000-01	.1460-01	.2420-01	.9278	.6753-03	.1060-02	.9170	.6050	540.9
286	168.00	.96000	979.00	.1880-01	.1370-01	.2270-01	.9278	.6348-03	.9966-03	.8620	.5690	540.9
286	168.00	.97000	980.00	.1770-01	.1290-01	.2140-01	.9278	.5977-03	.9384-03	.8120	.5360	540.9
286	168.00	.98000	981.00	.1670-01	.1220-01	.2020-01	.9278	.5640-03	.8855-03	.7660	.5060	540.9
286	168.00	.99000	982.00	.1580-01	.1150-01	.1910-01	.9278	.5336-03	.8377-03	.7250	.4780	540.9
286	168.00	1.0000	983.00	.1500-01	.1090-01	.1810-01	.9278	.5065-03	.7951-03	.6880	.4540	540.9
286	168.00	1.0100	984.00	.1420-01	.1040-01	.1720-01	.9278	.4798-03	.7532-03	.6520	.4300	540.9
286	168.00	1.0200	985.00	.1350-01	.9850-02	.1630-01	.9278	.4564-03	.7165-03	.6200	.4090	540.9
286	168.00	1.0300	986.00	.1290-01	.9400-02	.1560-01	.9278	.4357-03	.6840-03	.5920	.3900	540.9
286	168.00	1.0400	987.00	.1230-01	.8970-02	.1490-01	.9278	.4156-03	.6525-03	.5650	.3720	540.9
286	168.00	1.0500	988.00	.1180-01	.8600-02	.1430-01	.9278	.3987-03	.6260-03	.5420	.3570	540.9
286	168.00	1.0600	989.00	.1130-01	.8240-02	.1370-01	.9278	.3818-03	.5995-03	.5190	.3420	540.9
286	168.00	1.0700	990.00	.1090-01	.7940-02	.1320-01	.9278	.3683-03	.5783-03	.5000	.3300	540.9
286	168.00	1.0800	991.00	.1050-01	.7650-02	.1270-01	.9278	.3548-03	.5571-03	.4820	.3170	540.9
286	168.00	1.0900	992.00	.1010-01	.7360-02	.1220-01	.9278	.3413-03	.5359-03	.4640	.3060	540.9
286	168.00	1.1000	993.00	.9770-02	.7120-02	.1180-01	.9278	.3302-03	.5185-03	.4490	.2960	540.9
286	168.00	1.1100	994.00	.9450-02	.6880-02	.1140-01	.9278	.3190-03	.5010-03	.4340	.2860	540.9
286	168.00	1.1200	995.00	.9140-02	.6660-02	.1100-01	.9278	.3087-03	.4848-03	.4200	.2770	540.9
286	168.00	1.1300	996.00	.8850-02	.6450-02	.1070-01	.9278	.2990-03	.4696-03	.4070	.2680	540.9
286	168.00	1.1400	997.00	.8580-02	.6250-02	.1040-01	.9278	.2899-03	.4553-03	.3940	.2600	540.9
286	168.00	1.1500	998.00	.8330-02	.6070-02	.1010-01	.9278	.2815-03	.4421-03	.3830	.2520	540.9
286	168.00	1.1600	999.00	.8090-02	.5890-02	.9810-02	.9278	.2733-03	.4292-03	.3720	.2450	540.9
286	168.00	1.1700	1000.0	.7860-02	.5730-02	.9540-02	.9278	.2657-03	.4172-03	.3610	.2380	540.9
286	168.00	1.1800	1001.0	.7650-02	.5570-02	.9280-02	.9278	.2586-03	.4060-03	.3520	.2320	540.9
286	168.00	1.1900	1002.0	.7450-02	.5430-02	.9040-02	.9278	.2518-03	.3954-03	.3430	.2260	540.9
286	168.00	1.2000	1003.0	.7260-02	.5290-02	.8810-02	.9278	.2454-03	.3853-03	.3340	.2200	540.9
286	168.00	1.2100	1004.0	.7080-02	.5160-02	.8590-02	.9278	.2393-03	.3758-03	.3260	.2150	540.9
286	168.00	1.2200	1005.0	.6910-02	.5030-02	.8380-02	.9278	.2335-03	.3667-03	.3180	.2100	540.9
286	168.00	1.2300	1006.0	.6750-02	.4920-02	.8190-02	.9278	.2281-03	.3582-03	.3110	.2050	540.9
286	168.00	1.2400	1007.0	.6600-02	.4810-02	.8000-02	.9278	.2230-03	.3501-03	.3040	.2000	540.9
286	168.00	1.2500	1008.0	.6450-02	.4700-02	.7820-02	.9278	.2179-03	.3422-03	.2970	.1960	540.9
286	168.00	1.2600	1009.0	.6310-02	.4600-02	.7650-02	.9278	.2132-03	.3348-03	.2900	.1910	540.9
286	168.00	1.2700	1010.0	.6180-02	.4500-02	.7490-02	.9278	.2088-03	.3279-03	.2850	.1880	540.9
286	168.00	1.2800	1011.0	.6050-02	.4410-02	.7340-02	.9278	.2044-03	.3210-03	.2790	.1840	540.9
286	168.00	1.2900	1012.0	.5930-02	.4320-02	.7190-02	.9278	.2003-03	.3146-03	.2730	.1800	540.9
286	168.00	1.3000	1013.0	.5810-02	.4230-02	.7040-02	.9278	.1962-03	.3082-03	.2670	.1760	540.9
286	168.00	1.3100	1014.0	.5700-02	.4150-02	.6910-02	.9278	.1925-03	.3023-03	.2620	.1730	540.9
286	168.00	1.3200	1015.0	.5590-02	.4070-02	.6780-02	.9278	.1888-03	.2965-03	.2570	.1690	540.9
286	168.00	1.3300	1016.0	.5480-02	.3990-02	.6650-02	.9278	.1851-03	.2907-03	.2520	.1660	540.9
286	168.00	1.3400	1017.0	.5380-02	.3920-02	.6530-02	.9278	.1817-03	.2854-03	.2470	.1630	540.9
286	168.00	1.3500	1018.0	.5280-02	.3850-02	.6410-02	.9278	.1783-03	.2801-03	.2430	.1600	540.9
286	168.00	1.3600	1019.0	.5190-02	.3780-02	.6300-02	.9278	.1753-03	.2753-03	.2390	.1570	540.9
286	168.00	1.3700	1020.0	.5100-02	.3720-02	.6190-02	.9278	.1722-03	.2705-03	.2340	.1540	540.9
286	168.00	1.3800	1021.0	.5010-02	.3650-02	.6080-02	.9278	.1692-03	.2657-03	.2300	.1520	540.9
286	168.00	1.3900	1022.0	.4930-02	.3590-02	.5980-02	.9278	.1665-03	.2614-03	.2270	.1490	540.9
286	168.00	1.4000	1023.0	.4850-02	.3540-02	.5880-02	.9278	.1637-03	.2570-03	.2230	.1470	540.9
286	168.00	1.4100	1024.0	.4770-02	.3480-02	.5790-02	.9278	.1611-03	.2529-03	.2190	.1440	540.9
286	168.00	1.4200	1025.0	.4690-02	.3430-02	.5690-02	.9278	.1584-03	.2487-03	.2160	.1420	540.9
286	168.00	1.4300	1026.0	.4620-02	.3370-02	.5600-02	.9278	.1560-03	.2449-03	.2130	.1400	540.9
286	168.00	1.4400	1027.0	.4550-02	.3320-02	.5520-02	.9278	.1536-03	.2411-03	.2090	.1380	540.9
286	168.00	1.4500	1028.0	.4480-02	.3270-02	.5430-02	.9278	.1512-03	.2374-03	.2060	.1360	540.9
286	168.00	1.4600	1029.0	.4410-02	.3220-02	.5350-02	.9278	.1489-03	.2337-03	.2030	.1340	540.9
286	168.00	1.4700	1030.0	.4340-02	.3170-02	.5270-02	.9278	.1466-03	.2301-03	.2000	.1320	540.9
286	168.00	1.4800	1031.0	.4280-02	.3120-02	.5190-02	.9278	.1445-03	.2268-03	.1970	.1300	540.9
286	168.00	1.4900	1032.0	.4220-02	.3080-02	.5120-02	.9278	.1425-03	.2236-03	.1940	.1280	540.9
286	168.00	1.5000	1033.0	.4160-02	.3030-02	.5040-02	.9278	.1404-03	.2204-03	.1910	.1260	540.9
286	168.00	1.5100	1034.0	.4100-02	.2990-02	.4970-02	.9278	.1384-03	.2172-03	.1890	.1250	540.9
286	168.00	1.5200	1035.0	.4040-02	.2950-02	.4900-02	.9278	.1365-03	.2142-03	.1860	.1230	540.9
286	168.00	1.5300	1036.0	.3980-02	.2900-02	.4830-02	.9278	.1345-03	.2111-03	.1830	.1210	540.9
286	168.00	1.5400	1037.0	.3930-02	.2870-02	.4760-02	.9278	.1327-03	.2083-03	.1810	.1190	540.9
286	168.00	1.5500	1038.0	.3870-02	.2830-02	.4700-02	.9278	.1309-03	.2054-03	.1780	.1180	540.9
286	168.00	1.5600	1039.0	.3820-02	.2790-02	.4630-02	.9278	.1291-03	.2026-03	.1760	.1160	540.9
286	168.00	1.5700	1040.0	.3770-02	.2750-02	.4570-02	.9278	.1274-03	.1999-03	.1740	.1150	540.9
286	168.00	1.5800	1041.0	.3720-02	.2720-02	.4510-02	.9278	.1257-03	.1972-03	.1710	.1130	540.9
286	168.00	1.5900	1042.0	.3670-02	.2680-02	.4450-02	.9278	.1241-03	.1947-03	.1690	.1120	540.9
286	168.00	1.6000	1043.0	.3620-02	.2650-02	.4390-02	.9278	.1224-03	.1921-03	.1670	.1100	540.9
286	168.00	1.6100	1044.0	.3580-02	.2620-02	.4340-02	.9278	.1210-03	.1899-03	.1650	.1090	540.9
286	168.00	1.6200	1045.0	.3530-02	.2580-02	.4280-02	.9278	.1194-03	.1874-03	.1630	.1080	540.9
286	168.00	1.6300	1046.0	.3490-02	.2550-02	.4230-02	.9278	.1180-03	.1852-03	.1610	.1060	540.9
286	168.00	1.6400	1047.0	.3450-02	.2520-02	.4180-02	.9278	.1166-03	.1830-03	.1590	.1050	540.9
286	168.00	1.6500	1048.0	.3410-02	.2490-02	.4130-02	.9278	.1153-03	.1809-03	.1570	.1040	540.9
286	168.00	1.6600	1049.0	.3370-02	.2460-02	.4080-02	.9278	.1139-03	.1788-03	.1550	.1030	540.9
286	168.00	1.6700	1050.0	.3330-02	.2430-02	.4030-02	.9278	.1125-03	.1766-03	.1540	.1010	540.9
286	168.00	1.6800	1051.0	.3290-02	.2400-02	.3980-02	.9278	.1112-03	.1745-03	.1520	.1000	540.9
286	168.00	1.6900	1052.0	.3250-02	.2370-02	.3930-02	.9278	.1098-03	.1724-03	.1500	.9900	540.9
286	168.00	1.7000	1053.0	.3210-02	.2340-02	.3880-02	.9278	.1085-03	.1703-03	.1480	.9800	540.9
286	168.00	1.7100	1054.0	.3170-02	.2310-02	.3830-02	.9278	.1071-03	.1681-03	.1460	.9700	540.9
286	168.00	1.7200	1055.0	.3130-02	.2280-02	.3780-02	.9278	.1058-03	.1660-03	.1440	.9600	540.9
286	168.00	1.7300	1056.0	.3090-02	.2250-02	.3730-02	.9278	.1044-03	.1639-03	.1420	.9500	540.9
286	168.00	1.7400	1057.0	.3050-02	.2220-02	.3680-02	.9278	.1031-03	.1618-03	.1400	.9400	540.9
286	168.00	1.7500	1058.0	.3010-02	.2190-02	.3630-02	.9278	.1017-03	.1596-03	.1380	.9300	540.9
286	168.00	1.7600	1059.0	.2970-02	.2160-02	.3580-02	.9278	.1004-03	.1575-03	.1360	.9200	540.9
286	168.00	1.7700	1060.0	.2930-02	.2130-02	.3530-02	.9278	.9904-04	.1554-03	.1340	.9100	540.9
286	168.00	1.7800	1061.0	.2890-02	.2100-02	.3480-02	.9278	.9770-04	.1533-03	.1320	.9000	540.9
286	168.00	1.7900	1062.0	.2850-02	.2070-02	.3430-02	.9278	.9636-04	.1512-03	.1300	.8900	540.9
286	168.00	1.8000	1063.0	.2810-02	.2040-02	.3380-02	.9278	.9502-04	.1491-03	.1280	.8800	540.9
286	168.00	1.8100	1064.0	.2770-02	.2010-02	.3330-02	.9278	.9368-04	.1470-03	.1260	.8700	540.9
286	168.00	1.8200	1065.0	.2730-02	.1980-02	.3280-02	.9278	.9234-04	.1449-03	.1240	.8600	540.9
286	168.00	1.8300	1066.0	.2690-02	.1950-02	.3230-02	.9278	.9100-04	.1428-03	.1220	.8500	540.9
286	168.00	1.8400	1067.0	.2650-02	.1920-02	.3180-02	.9278	.8966-04	.1407-03	.1200	.8400	540.9
286	168.00	1.8500	1068.0	.2610-02	.1890-02	.3130-02	.9278	.8832-04	.1386-03	.1180	.8300	540.9
286	168.00	1.8600	1069.0	.2570-02	.1860-02	.3080-02	.9278	.8698-04	.1365-03	.1160	.8200	540.9
286	168.00	1.8700	1070.0	.2530-02	.1830-02	.3030-02	.9278	.8564-04	.1344-03	.1140	.8100	540.9
286	168.00	1.8800	1071.0	.2490-02	.1800-02	.2980-02	.9278	.8430-04	.1323-03	.1120	.8000	540.9
286	168.00	1.8900	1072.0	.2450-02	.1770-02	.2930-02	.9278	.8296-04	.1302-03	.1100	.7900	540.9
286	168.00	1.9000	1073.0	.2410-02	.1740-02	.2880-02	.9278	.8162-04	.1281-03	.1080	.7800	540.9
286	168.00	1.9100	1074.0	.2370-02	.1710-02	.2830-02	.9278	.8028-04	.1260-03	.1060	.7700	540.9
286	168.00	1.9200	1075.0	.2330-02	.1680-02	.2780-02	.9278	.7894-04	.1239-03	.1040	.7600	540.9
286	168.00	1.9300	1076.0	.2290-02	.1650-02	.2730-02	.9278	.7760-04	.1218-03	.1020	.7500	540.9
286	168.00	1.9400	1077.0	.2250-02	.1620-02	.2680-02	.9278	.7626-04	.1197-03	.1000	.7400	540.9
286	168.00	1.9500	1078.0	.2210-02	.1590-02	.2630-02	.9278	.7492-04	.1176-03	.9800	.7300	540.9
286	168.00	1.9600	1079.0	.2170-02	.1560-02	.2580-02	.9278	.7358-04	.1155-03	.9600	.7200	540.9
286	168.00	1.9700	1080.0	.2130-02	.1530-02	.2530-02	.9278	.7224-04	.1134-03	.9400	.7100	540.9
286	168.00	1.9800	1081.0	.2090-02	.1500-02	.2480-02	.9278	.7090-04	.1113-03	.9200	.7000	540.9
286	168.00	1.9900	1082.0	.2050-02	.1470-02	.2430-02	.9278	.6956-04	.1092-03	.9000	.6900	540.9
286	168.00	2.0000	1083.0	.2010-02	.1440-02	.2380-02	.9278	.6822-04	.1071-03	.8800	.6800	540.9
286	168.00	2.0100	1084.0	.1970-02	.1410-02	.2330-02	.9278	.6688-04	.1050-03	.8600	.6700	540.9
286	168.00	2.0200	1085.0	.1930-02	.1380-02	.2280-02	.9278	.6554-04	.1029-03	.8400	.6600	540.9
286	168.00	2.0300	1086.0	.1890-02	.1350-02	.2230-02	.9278	.6420-04	.1008-03	.8200	.6500	540.9
286	168.00	2.0400	1087.0	.1850-02	.1320-02	.2180-02	.9278	.6286-04	.9870-04	.8000	.6400	540.9
286	168.00	2.0500	1088.0	.1810-02	.1290-02	.2130-02	.9278	.6152-04	.9660-04	.7800	.6300	540.9
286	168.00	2.0600	1089.0	.1770-02	.1260-02	.2080-02	.9278	.6018-04	.9450-04	.7600	.6200	540.9
286	168.00	2.0700	1090.0	.1730-02	.1230-02	.2030-02	.9278	.5884-04	.9240-04	.7400	.6100	540.9
286	168.00	2.0800	1091.0	.1690-02	.1200-02	.1980-02	.9278	.5750-04	.9030-04	.7200	.6000	540.9
286	168.00	2.0900	1092.0	.1650-02	.1170-02	.1930-02	.9278	.5616-04	.8820-04	.7000	.5900	540.9
286	168.00	2.1000	1093.0	.1610-02	.1140-02	.1880-02	.9278	.5482-04	.8610-04	.6800	.5800	540.9
286	168.00	2.1100	1094.0	.1570-02	.1110-02	.1830-02	.9278	.5348-04	.8400-04	.6600	.5700	540.9
286	168.00	2.1200	1095.0	.1530-02	.1080-02	.1780-02	.9278	.5214-04	.8190-04	.6400	.5600	540.9
286	168.00	2.1300	1096.0	.1490-02	.1050-02	.1730-02	.9278	.5080-04	.7980-04	.6200	.5500	540.9
286	168.00	2.1400	1097.0	.1450-02	.1020-02	.1680-02	.9278	.4946-04	.7770-04	.6000	.5400	540.9
286	168.00	2.1500	1098.0	.1410-02	.9900-03	.1630-02	.9278	.4812-04	.7560-04	.5800	.5300	540.9
286	168.00	2.1600	1099.0	.1370-02	.9600-03	.1580-02	.9278	.4678-04	.7350-04	.5600	.5200	540.9
286	168.00	2.1700	1100.0	.1330-02	.9300-03	.1530-02	.9278	.4544-04	.7140-04	.5400	.5100	540.9
286	168.00	2.1800	1101.0	.1290-02	.9000-03	.1480-02	.9278	.4410-04	.6930-04	.5200	.5000	540.9
286	168.00	2.1900	1102.0	.1250-02	.8700-03	.1430-02	.9278	.4276-04	.6720-04	.5000	.4900	540.9
286	168.00	2.2000	1103.0	.1210-02	.8400-03	.1380-02	.9278	.4142-04	.6510-04	.4800	.4800	540.9
286	168.00	2.2100	1104.0	.1170-02	.8100-03	.1330-02	.9278	.4008-04	.6300-04	.4600	.4700	540.9
286	168.00	2.2200	1105.0	.1130-02	.7800-03	.1280-02	.9278	.3874-04	.6090-04	.4400	.4600	540.9
286	168.00	2.2300	1106.0	.1090-02	.7500-03	.1230-02	.9278	.3740-04	.5880-04	.4200	.4500	540.9
286	168.00	2.2400	1107.0	.1050-02	.7200-03	.1180-02	.9278	.3606-04	.5670-04	.4000	.4400	540.9
286	168.00	2.2500	1108.0	.1010-02	.6900-03	.1130-02	.9278	.3472-04	.5460-04	.3800	.4300	540.9
286	168.00	2.2600	1109.0	.9700-03	.6600-03	.1080-02	.9278	.3338-04	.5250-04	.3600	.4200	540.9
286	168.00	2.2700	1110.0	.9300-03	.6300-03	.1030-02	.9278	.3204-04	.5040-04	.3400	.4100	540.9
286	168.00	2.2800	1111.0	.8900-03	.6000-03	.9800-03	.9278	.3070-04	.4830-04	.3200	.4000	540.9
286	168.00	2.2900	1112.0	.8500-03	.5700-03	.9300-03	.9278	.2936-04	.4620-04	.3000	.3900	540.9
286	168.00	2.3000	1113.0	.8100-03	.5400-03	.8800-03	.9278	.2802-04	.4410-04	.2800	.3800	540.9
286	168.00	2.3100	1114.0	.7700-03	.5100-03	.8300-03	.9278	.2668-04	.4200-04	.2600	.3700	540.9
286	168.00	2.3200	1115.0	.7300-03	.4800-03	.7800-03	.9278	.2534-04	.3990-04	.2400	.3600	540.9
286	168.00	2.3300	1116.0	.6900-03	.4500-03	.7300-03	.9278	.2400-04	.3780-04	.2200	.3500	540.9
286	168.00	2.3400	1117.0	.6500-03	.4200-03	.6800-03	.9278	.2266-04	.3570-04	.2000	.3400	540.9
286	168.00	2.3500	1118.0	.6100-03	.3900-03	.6300-03	.9278	.2132-04	.3360-04	.1800	.3300	540.9
286	168.00	2.3600	1119.0	.5700-03	.3600-03	.5800-03	.9278	.1998-04	.3150-04	.1600	.3200	540.9
286	168.00	2.3700	1120.0	.5300-03	.3300-03	.5300-03	.9278	.1864-04	.2940-04	.1400	.3100	540.9
286	168.00	2.3800	1121.0	.4900-03	.3000-03	.4800-03	.9278	.1730-04	.2730-04	.1200	.3000	540.9
286	168.00	2.3900	1122.0	.4500-03	.2700-03	.4300-03	.9278	.1596-04	.2520-04	.1000	.2900	540.9
286	168.00	2.4000	1123.0	.4100-03	.2400-03	.3800-03	.9278	.1462-04	.2310-04	.8000	.2800	540.9
286	168.00	2.4100	1124.0	.3700-03	.2100-03	.3300-03	.9278	.1328-04	.2100-04	.6000	.2700	540.9
286	168.00	2.4200	1125.0	.3300-03	.1800-03	.2800-03	.9278	.1194-04	.1890-04	.4000	.2600	540.9
286	168.00	2.4300	1126.0	.2900-03	.1500-03	.2300-03	.9278	.1060-04	.1680-04	.2000	.2500	540.9
286	168.00	2.4400	1127.0	.2500-03	.1200-03	.1800-03	.9278	.9260-05	.1470-04	.0000	.2400	540.9
286	168.00	2.4500	1128.0	.2100-03	.9000-04	.1300-03	.9278	.7920-05	.1260-04	.0000	.2300	540.9
286	168.00	2.4600	1129.0	.1700-03	.6000-04	.8000-04	.9278	.6580-05	.1050-04	.0000	.2200	540.9
286	168.00	2.4700	1130.0	.1300-03	.3000-04	.3000-04	.9278	.5240-05	.8400-05	.0000	.2100	540.9
286	168.00	2.4800	1131.0	.9000-04	.0000	.0000	.9278	.3900-05	.6300-05	.0000	.2000	540.9
286	168.00	2.4900	1132.0	.5000-04	.0000	.0000	.9278	.2560-05	.4200-05	.0000	.1900	540.9
286	168.00	2.5000	1133.0	.1000-04	.0000	.0000	.9278	.1220-05	.2100-05	.0000	.1800	540.9
286	168.00	2.5100	1134.0	.0000	.0000	.0000	.9278	.0000	.0000	.0000	.1700	540.9
286	168.00	2.5200	1135.0	.0000	.0000	.0000	.9278	.0000	.0000	.0000	.1600	540.9
286	168.00	2.5300	1136.0	.0000	.0000	.0000	.9278	.0000	.0000	.0000	.1500	540.9
286	168.00	2.5400	1137.0	.0000	.0000	.0000	.9278	.0000	.0000	.0000	.1400	540.9
286	168.00	2.5500	1138.0	.0000	.0000	.0000	.9278	.0000	.0000	.0000	.1300	540.9
286	168.00	2.5600	1139.0	.0000	.0000	.0000	.9278	.0000	.0000	.0000	.1200	540.9
286	168.00	2.5700	1140.0	.0000	.0000	.0000	.9278	.0000	.0000	.0000	.1100	540.9
286	168.00	2.5800	1141.0	.0000	.0000	.0000	.9278	.0000	.0000	.0000	.1000	540.9
286	168.00	2.5900	1142.0	.0000	.0000	.0000	.9278	.0000	.0000	.0000	.0900	540.9
286	168.00	2.6000	1143.0	.0000	.0000	.0000	.9278	.0000	.0000	.0000	.0800	540.9
286	168.00	2.6100	1144.0	.0000	.0000	.0000	.9278	.0000	.0000	.0000	.0700	540.9
286	168.00	2.6200	1145.0	.0000	.0000	.0000	.9278	.0000	.0000	.0000	.0600	540.9
286	168.00	2.6300	1146.0	.0000	.0000	.0000	.9278	.0000	.0000	.0000	.0500	540.9
286	168.00	2.6400	1147.0	.0000	.0000	.0000	.9278	.0000	.0000	.0000	.0400	540.9
286	168.00	2.6500	1148.0	.0000	.0000	.0000	.9278	.0000	.0000	.0000	.0300	540.9
286	168.00	2.6600	1149.0	.0000	.0000	.0000	.9278	.0000	.0000	.0000	.0200	540.9
286	168.00	2.6700	1150.0	.0000	.0000	.0000	.9278	.0000

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = 10.00 BETA = -6.000 GRIT = 3.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
90	4.520	5.026	10.04	6.000	-31.00	97.00	.3270	667.0	131.1	4.677	2536.	.2092-03
91	4.520	5.030	10.05	6.000	-31.00	97.10	.3270	667.0	131.2	4.681	2536.	.2094-03
92	4.520	5.033	10.01	6.000	-31.00	97.10	.3270	667.0	131.1	4.681	2536.	.2095-03
267	4.520	4.946	9.980	5.900	-31.00	94.90	.3200	664.0	130.5	4.572	2530.	.2055-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	SI FR REF(R) =.0175
90	.1056-06	.4739-01	.1143-01
91	.1056-06	.4741-01	.1142-01
92	.1056-06	.4741-01	.1142-01
267	.1051-06	.4682-01	.1132-01

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF P= 0.00	H/HREF P=1.0	H/HREF P= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
91	.00000	.00000+00	700.00	.5510	.3449	.3968	.9825	.1635-01	.1881-01	1.468	9.358	577.9
91	.00000	.10303-01	731.00	.2795	.1951	.3685	.9221	.9230-02	.1747-01	1.082	6.884	556.6
91	.00000	.16000-01	739.00	.3291	.2049	.3433	.9221	.1066-01	.2104-01	1.123	7.582	561.7
91	.00000	.21000-01	743.00	.3658	.2458	.3719	.9731	.1640-01	.1953-01	1.426	9.532	580.1
91	.00000	.26000-01	746.00	.3901	.2702	.3859	.9771	.1916-01	.2308-01	1.657	9.997	59 .0
91	.00000	.30000-01	748.00	.4087	.2887	.3993	.9764	.1938-01	.2416-01	1.809	.0.80	594.1
91	.00000	.35000-01	750.00	.4287	.3087	.4193	.9789	.1970-01	.2660-01	1.951	9.953	597.6
91	.00000	.40000-01	751.00	.4488	.3307	.3922	.9739	.1592-01	.1882-01	1.303	8.514	572.8
91	.00000	.46000-01	752.00	.4710	.3514	.3632	.9721	.1382-01	.1722-01	1.303	8.516	579.0
91	.00000	.50000-01	753.00	.4854	.3718	.4151	.9000	.1478-01	.1968-01	1.317	8.616	583.8
91	.00000	.55000-01	754.00	.4979	.3848	.4056	.9633	.1337-01	.1823-01	1.128	7.485	583.8
91	.00000	.60000-01	754.00	.5089	.3938	.3936	.9599	.1165-01	.1629-01	.9894	7.852	579.2
91	.00000	.65000-01	754.00	.5186	.4039	.4037	.9645	.1342-01	.1853-01	1.146	7.580	581.2
91	.00000	.70000-01	754.00	.5280	.4138	.4218	.9460	.8291-02	.1430-01	.8727	6.087	577.0
91	.00000	.75000-01	754.00	.5370	.4230	.4074	.9393	.7716-02	.1269-01	.7980	5.814	563.6
91	.00000	.80000-01	754.00	.5457	.4322	.4209	.9333	.5871-02	.9051-02	.5870	4.391	557.7
91	.00000	.85000-01	754.00	.5543	.4410	.4348	.9282	.3987-02	.6867-02	.4450	3.014	552.9

(H41)(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
91	.00000	.21500	747.00	.1055	.7490-01	.1317	.9256	.3551-02	.6243-02	.4080	2.823	552.0
91	.00000	.23000	748.00	.8800-01	.6250-01	.1123	.9234	.2964-02	5324-02	.3420	2.519	551.8
91	.00000	.24000	749.00	.7700-01	.5480-01	.9960-01	.9221	.2598-02	.4720-02	.3000	2.260	551.5
91	.00000	.25000	750.00	.4220-01	.3040-01	.5400-01	.9221	.1439-02	.2558-02	.1710	1.382	548.3
91	.00000	.30000	751.00	.8100-01	.5790-01	.1042	.9221	.2744-02	.4940-02	.3210	2.102	550.1
91	.00000	.35000	752.00	.7820-01	.5610-01	.1001	.9221	.2660-02	.4747-02	.3150	1.986	548.8
91	.00000	.40000	753.00	.7580-01	.5450-01	.9700-01	.9221	.2584-02	.4598-02	.3070	1.970	548.4
91	.00000	.45000	754.00	.7490-01	.5360-01	.9620-01	.9221	.2542-02	.4559-02	.2990	1.952	549.6
91	.00000	.50000	755.00	.7500-01	.5400-01	.9580-01	.9221	.2562-02	.4542-02	.3050	1.958	547.8
91	.00000	.60000	756.00	.6810-01	.4880-01	.8760-01	.9221	.2312-02	.4152-02	.2710	1.788	549.8
91	.00000	.70000	756.00	.6150-01	.4350-01	.8000-01	.9221	.2060-02	.3795-02	.2340	1.463	553.3
91	.00000	.80000	757.00	.2890-01	.2050-01	.3750-01	.9221	.9720-03	.1780-02	.1110	.7180	552.6
91	.00000	.90000	758.00	.9480-01	.6720-01	.1187	.9255	.3187-02	.5629-02	.3650	2.710	552.5
91	55.000	.22000	759.00	.5080-01	.3640-01	.6490-01	.9226	.1726-02	.3077-02	.2030	1.588	549.5
91	55.000	.25000	760.00	.6080-01	.4290-01	.7880-01	.9226	.2033-02	.3734-02	.2300	1.709	553.7
91	55.000	.27000	761.00	.9060-01	.6490-01	.1162	.9226	.3078-02	.5512-02	.3600	2.162	550.1
91	55.000	.30000	762.00	.8760-01	.6280-01	.1119	.9226	.2979-02	.5304-02	.3510	2.074	549.2
91	55.000	.33000	763.00	.8780-01	.6310-01	.1119	.9226	.2990-02	.5306-02	.3540	2.096	548.8
91	55.000	.35000	764.00	.8340-01	.6000-01	.1062	.9226	.2846-02	.5034-02	.3360	2.031	548.2
91	55.000	.38000	765.00	.8020-01	.5760-01	.1021	.9226	.2733-02	.4840-02	.3240	1.969	548.4
91	55.000	.40000	766.00	.7970-01	.5750-01	.1012	.9226	.2725-02	.4797-02	.3260	2.036	547.5
91	55.000	.43000	767.00	.8010-01	.5750-01	.1012	.9226	.2725-02	.4797-02	.3260	2.036	547.5
91	55.000	.45000	768.00	.8210-01	.7100-01	.1276	.9229	.3367-02	.6050-02	.3900	2.697	551.1
91	55.000	.48000	769.00	.4430-01	.3190-01	.5680-01	.9217	.1512-02	.2691-02	.1800	1.401	547.9
91	55.000	.50000	770.00	.6700-01	.4750-01	.8710-01	.9217	.2253-02	.4131-02	.2590	1.884	552.1
91	55.000	.53000	771.00	.5560-01	.4010-01	.7130-01	.9217	.1900-02	.3380-02	.2260	1.403	547.9
91	55.000	.55000	772.00	.7660-01	.5170-01	.9300-01	.9217	.2452-02	.4411-02	.2880	1.760	549.5
91	55.000	.58000	773.00	.7860-01	.5630-01	.1011	.9217	.2671-02	.4796-02	.3150	1.936	549.2
91	55.000	.60000	774.00	.7730-01	.5560-01	.9920-01	.9217	.2638-02	.4702-02	.3140	1.887	548.0
91	55.000	.63000	775.00	.7600-01	.5470-01	.9740-01	.9217	.2594-02	.4617-02	.3090	1.852	547.9
91	55.000	.65000	776.00	.7770-01	.5600-01	.9960-01	.9217	.2654-02	.4722-02	.3160	1.912	547.8
91	55.000	.68000	777.00	.7830-01	.5650-01	.1002	.9217	.2678-02	.4752-02	.3210	1.937	547.4
91	55.000	.70000	778.00	.7830-01	.5660-01	.1005	.9217	.2684-02	.4765-02	.3210	1.939	547.5
91	55.000	.73000	779.00	.6340-01	.6030-01	.1065	.9217	.2868-02	.5051-02	.3440	2.083	546.8
91	55.000	.75000	780.00	.7730-01	.5580-01	.9880-01	.9217	.2647-02	.4685-02	.3180	1.930	547.0
91	55.000	.78000	781.00	.7580-01	.5470-01	.9690-01	.9217	.2594-02	.4595-02	.3110	1.895	547.1
91	55.000	.80000	782.00	.8150-01	.5890-01	.1042	.9217	.2794-02	.4939-02	.3360	2.048	546.8
91	67.500	.36500	783.00	.7530-01	.5450-01	.9610-01	.9217	.2582-02	.4557-02	.3110	1.892	546.5
91	67.500	.37000	784.00	.7290-01	.5270-01	.9300-01	.9217	.2499-02	.4411-02	.3010	1.840	546.6
91	67.500	.37500	785.00	.7070-01	.5120-01	.9030-01	.9217	.2425-02	.4283-02	.2920	1.800	546.6
91	67.500	.38000	786.00	.7120-01	.5140-01	.9100-01	.9217	.2439-02	.4316-02	.2930	1.810	547.0
91	67.500	.39000	787.00	.7140-01	.5160-01	.9140-01	.9217	.2445-02	.4332-02	.2930	1.817	547.1
91	67.500	.40000	788.00	.7620-01	.5500-01	.9740-01	.9217	.2609-02	.4616-02	.3130	1.958	546.9
91	67.500	.50000	789.00	.6980-01	.5020-01	.8970-01	.9217	.2379-02	.4254-02	.2820	1.805	548.6

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F20)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
267	67.500	.60000	790.00	.8200-01	.5860-01	.9830-01	.9293	.3248-02	.5447-02	.3870	2.523	561.8
267	67.500	.70000	791.00	.8800-01	.6080-01	.1079	.9293	.3371-02	.5984-02	.3720	2.595	570.7
267	67.500	.80000	792.00	.9450-01	.6550-01	.1153	.9293	.3652-02	.6389-02	.4110	2.552	568.6
267	67.500	.90000	793.00	.6470-01	.4260-01	.8210-01	.9293	.2373-02	.4553-02	.2390	1.514	580.4
267	78.000	.27000	794.00	.7020-01	.4960-01	.8500-01	.9290	.2750-02	.4712-02	.3190	2.256	565.0
267	79.000	.29000	795.00	.1090	.7640-01	.1328	.9290	.4235-02	.7364-02	.4820	2.938	567.3
92	78.000	.30000	796.00	.7390-01	.5340-01	.9510-01	.9208	.2533-02	.4510-02	.3050	1.852	546.2
92	78.000	.31000	797.00	.7030-01	.5090-01	.9030-01	.9208	.2415-02	.4280-02	.2930	1.777	545.5
92	78.000	.32000	798.00	.7030-01	.5110-01	.9020-01	.9208	.2420-02	.4277-02	.2950	1.778	545.1
92	78.000	.32500	799.00	.7170-01	.5210-01	.9190-01	.9208	.2470-02	.4359-02	.3010	1.823	544.9
92	78.000	.33000	800.00	.7190-01	.5230-01	.9210-01	.9208	.2481-02	.4366-02	.3040	1.838	544.4
92	78.000	.33500	801.00	.7320-01	.5320-01	.9370-01	.9208	.2523-02	.4443-02	.3080	1.866	544.6
92	78.000	.34000	802.00	.7090-01	.5170-01	.9060-01	.9208	.2450-02	.4295-02	.3010	1.825	543.8
92	78.000	.34500	803.00	.7490-01	.5460-01	.9580-01	.9208	.2590-02	.4540-02	.3190	1.934	543.8
92	78.000	.35000	804.00	.6960-01	.5080-01	.8890-01	.9208	.2407-02	.4215-02	.2970	1.801	543.6
92	78.000	.35500	805.00	.7180-01	.5240-01	.9160-01	.9208	.2485-02	.4344-02	.3070	1.864	543.3
92	78.000	.36000	806.00	.5540-01	.4050-01	.7060-01	.9208	.1921-02	.3345-02	.2390	1.453	542.7
92	78.000	.36500	807.00	.6690-01	.4880-01	.8550-01	.9208	.2316-02	.4051-02	.2860	1.744	543.5
92	78.000	.37000	808.00	.6820-01	.5050-01	.8840-01	.9208	.2395-02	.4191-02	.2950	1.807	543.5
92	78.000	.37500	809.00	.6510-01	.4750-01	.8310-01	.9208	.2251-02	.3940-02	.2770	1.698	543.6
92	78.000	.38000	810.00	.6570-01	.4800-01	.8390-01	.9208	.2274-02	.3976-02	.2810	1.729	543.3
92	78.000	.38500	811.00	.6850-01	.5070-01	.8870-01	.9208	.2403-02	.4207-02	.2960	1.827	543.6
92	78.000	.40000	812.00	.6650-01	.4850-01	.8480-01	.9208	.2300-02	.4021-02	.2840	1.753	543.4
267	90.000	.40000-01	986.00	.4131	.2826	.3593	.9662	.1323-01	.1682-01	1.391	8.992	558.7
267	90.000	.50000-01	985.00	.6013	.3387	.4469	.9627	.1586-01	.2093-01	1.623	10.42	561.5
267	90.000	.60000-01	987.00	.4329	.2784	.3927	.3592	.1303-01	.1839-01	1.212	7.884	570.8
267	90.000	.80000-01	989.00	.3478	.2350	.3393	.9526	.1100-01	.1589-01	1.126	7.921	561.5
267	90.000	.15000	991.00	.1800	.1254	.2099	.9336	.5873-02	.9625 02	.6430	4.705	554.3
92	90.000	.20000	813.00	.6520-01	.4740-01	.8370-01	.9206	.2245-02	.3967-02	.2740	1.992	544.9
92	90.000	.24000	814.00	.5370-01	.3900-01	.6960-01	.9198	.1849-02	.3302-02	.2250	1.620	545.2
92	90.000	.27000	816.00	.5960-01	.4240-01	.7630-01	.9198	.2011-02	.3616-02	.2430	1.724	546.2
92	90.000	.29000	817.00	.5490-01	.3660-01	.6810-01	.9198	.1830-02	.3230-02	.2260	1.607	543.4
92	90.000	.30000	818.00	.5670-01	.4570-01	.8110-01	.9198	.2164-02	.3845-02	.2650	1.621	544.4
92	90.000	.31000	819.00	.5550-01	.4760-01	.8430-01	.9198	.2258-02	.3985-02	.2780	1.686	543.8
92	90.000	.32000	820.00	.5650-01	.4780-01	.8440-01	.9198	.2265-02	.4001-02	.2790	1.691	543.5
92	90.000	.33500	821.00	.5290-01	.4600-01	.8080-01	.9198	.2183-02	.3833-02	.2710	1.639	542.5
92	90.000	.33000	822.00	.5180-01	.4520-01	.7930-01	.9198	.2144-02	.3761-02	.2670	1.616	542.4
92	90.000	.33500	823.00	.5150-01	.4500-01	.7890-01	.9198	.2135-02	.3741-02	.2660	1.618	542.1
92	90.000	.34000	824.00	.5210-01	.4610-01	.8060-01	.9198	.2184-02	.3822-02	.2730	1.648	541.9
92	90.000	.34500	825.00	.5360-01	.4660-01	.8150-01	.9198	.2209-02	.3864-02	.2760	1.673	541.9
92	90.000	.35000	826.00	.5040-01	.4430-01	.7740-01	.9198	.2086-02	.3670-02	.2620	1.589	541.9
92	90.000	.35500	827.00	.5260-01	.4230-01	.7360-01	.9198	.2004-02	.3499-02	.2510	1.518	541.6
92	90.000	.37000	830.00	.5050-01	.4380-01	.7520-01	.9198	.2075-02	.3615-02	.2610	1.585	541.2

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
92	90.000	.37500	831.00	.5840-01	.4290-01	.7470-01	.9198	.2034-02	.3541-02	.2560	1.562	541.1
92	90.000	.38000	832.00	.5900-01	.4330-01	.7560-01	.9198	.2053-02	.3593-02	.2570	1.573	541.5
92	90.000	.39000	833.00	.5910-01	.4340-01	.7560-01	.9198	.2058-02	.3586-02	.2590	1.598	541.2
92	90.000	.40000	834.00	.5710-01	.4190-01	.7320-01	.9198	.1988-02	.3470-02	.2490	1.543	541.6
92	90.000	.50000	835.00	.5270-01	.3840-01	.6810-01	.9198	.1818-02	.3228-02	.2230	1.410	544.3
92	90.000	.60000	836.00	.5700-01	.4180-01	.7300-01	.9198	.1983-02	.3460-02	.2490	1.661	541.4
92	90.000	.70000	837.00	.5050-01	.3690-01	.6500-01	.9198	.1750-02	.3080-02	.2170	1.531	542.8
92	90.000	.80000	838.00	.4860-01	.3560-01	.6240-01	.9198	.1687-02	.2961-02	.2100	1.307	542.4
92	90.000	.90000	839.00	.2480-01	.1820-01	.3180-01	.9198	.8609-03	.1505-02	.1080	.6690	541.9
92	112.50	.23000	840.00	.3900-01	.2870-01	.5030-01	.9188	.1361-02	.2387-02	.1710	1.386	540.9
92	112.50	.25000	841.00	.2530-01	.1870-01	.3260-01	.9184	.8874-03	.1545-02	.1130	.8920	539.0
92	112.50	.27000	842.00	.2340-01	.1730-01	.3020-01	.9184	.8188-03	.1432-02	.1040	.7300	539.8
92	112.50	.30000	843.00	.4840-01	.3560-01	.6250-01	.9184	.1688-02	.2965-02	.2130	1.272	540.5
92	112.50	.33000	844.00	.6210-01	.4590-01	.7990-01	.9184	.2176-02	.3789-02	.2780	1.682	539.1
92	112.50	.35000	845.00	.4690-01	.3470-01	.6030-01	.9184	.1644-02	.2857-02	.2110	1.296	538.7
92	112.50	.37000	846.00	.4750-01	.3510-01	.6100-01	.9184	.1665-02	.2890-02	.2140	1.323	538.5
92	112.50	.40000	847.00	.3760-01	.2790-01	.4820-01	.9184	.1321-02	.2283-02	.1700	1.067	537.8
92	112.50	.45000	848.00	.3660-01	.2710-01	.4700-01	.9184	.1285-02	.2227-02	.1650	1.044	538.2
92	112.50	.50000	849.00	.3760-01	.2770-01	.4840-01	.9184	.1314-02	.2294-02	.1670	1.080	539.5
92	112.50	.55000	850.00	.2670-01	.1970-01	.3430-01	.9184	.9347-03	.1625-02	.1200	.8020	538.8
92	112.50	.60000	851.00	.3350-01	.2480-01	.4300-01	.9184	.1175-02	.2039-02	.1510	1.014	538.5
92	112.50	.65000	852.00	.3380-01	.2500-01	.4350-01	.9184	.1186-02	.2061-02	.1520	1.038	538.7
92	112.50	.70000	853.00	.2950-01	.2170-01	.3800-01	.9184	.1029-02	.1804-02	.1300	.9180	540.1
92	112.50	.75000	854.00	.2470-01	.1830-01	.3160-01	.9184	.8684-03	.1499-02	.1120	.7310	537.6
92	112.50	.80000	855.00	.4050-01	.3010-01	.5190-01	.9184	.1426-02	.2461-02	.1840	1.205	537.5
92	112.50	.90000	856.00	.3390-01	.2530-01	.4330-01	.9184	.1199-02	.2054-02	.1570	1.021	536.2
92	125.40	.84000	857.00	.4060-01	.3020-01	.5190-01	.9183	.1433-02	.2458-02	.1870	1.164	536.2
92	125.40	.85000	858.00	.4390-01	.3270-01	.5620-01	.9183	.1551-02	.2664-02	.2020	1.264	536.4
92	125.40	.86000	859.00	.4310-01	.3210-01	.5510-01	.9183	.1522-02	.2614-02	.1990	1.251	536.4
92	125.40	.87000	860.00	.4370-01	.3250-01	.5580-01	.9183	.1541-02	.2646-02	.2010	1.270	536.4
92	125.40	.88000	861.00	.4550-01	.3390-01	.5820-01	.9183	.1605-02	.2759-02	.2090	1.322	536.5
92	125.40	.89000	862.00	.4380-01	.3240-01	.5560-01	.9183	.1545-02	.2637-02	.2000	1.271	536.5
92	125.40	.90000	863.00	.3990-01	.2910-01	.4960-01	.9183	.1379-02	.2351-02	.1820	1.162	535.1
92	125.40	.91000	864.00	.2770-01	.2080-01	.3510-01	.9183	.9883-03	.1662-02	.1330	.9720	533.5
92	125.40	.92600	865.00	.4050-01	.3020-01	.5160-01	.9183	.1432-02	.2448-02	.1880	1.369	535.6
92	129.30	.80000	866.00	.1670-01	.1240-01	.2140-01	.9183	.5894-03	.1014-02	.7700-01	.4840	536.7
92	129.30	.81000	867.00	.3690-01	.2750-01	.4720-01	.9183	.1303-02	.2237-02	.1700	1.068	536.3
92	129.30	.82000	868.00	.4020-01	.3000-01	.5140-01	.9183	.1422-02	.2436-02	.1860	1.169	535.9
92	129.30	.83000	869.00	.4290-01	.3200-01	.5480-01	.9183	.1516-02	.2596-02	.1980	1.250	535.9
92	135.00	.40000-01	870.00	.2654	.1854	.2624	.9513	.8788-02	.1244-01	.9720	6.219	556.2
92	135.00	.50000-01	871.00	.3052	.2131	.3106	.9480	.1010-01	.1473-01	1.116	7.101	556.3
92	135.00	.60000-01	872.00	.3262	.2191	.3436	.9448	.1039-01	.1629-01	1.055	6.942	565.3
92	135.00	.70000-01	873.00	.3708	.2364	.4088	.9418	.1121-01	.1938-01	1.031	6.913	574.9

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F20)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
92	135.00	.10000+00	875.00	.1853	.1399	.2248	.9339	.6587-02	.1066-01	.7610	4.980	551.3
92	135.00	.16000	876.00	.1045	.7900-01	.1367	.9242	.3748-02	.6483-02	.4490	3.287	547.0
92	135.00	.22000	877.00	.5070-01	.3740-01	.6500-01	.9190	.1772-02	.3082-02	.2250	1.524	539.7
92	135.00	.35000	878.00	.3090-01	.2290-01	.3950-01	.9183	.1086-02	.1875-02	.1410	.8780	537.4
92	135.00	.40000	879.00	.2560-01	.1900-01	.3290-01	.9183	.9017-03	.1554-02	.1170	.7460	537.0
92	135.00	.46000	880.00	.2480-01	.1800-01	.3190-01	.9183	.5212-03	.9020-03	.6700-01	.4640	537.8
92	135.00	.52000	881.00	.1980-01	.1490-01	.2220-01	.9183	.6109-03	.1051-02	.7900-01	.5320	536.7
92	135.00	.58000	882.00	.1730-01	.1290-01	.2030-01	.9183	.1106-02	.1913-02	.1430	.9650	537.6
92	135.00	.64000	883.00	.2140-01	.2330-01	.4090-01	.9183	.1318-02	.2270-02	.1710	1.174	538.9
92	135.00	.70000	884.00	.2140-01	.1600-01	.2730-01	.9183	.1296-02	.2239-02	.1680	1.198	537.4
92	135.00	.76000	885.00	.2080-01	.2730-01	.4720-01	.9183	.1307-02	.2235-02	.1710	1.086	535.7
92	135.00	.82000	886.00	.3700-01	.2730-01	.4720-01	.9183	.3682-02	.6449-02	.4220	2.625	566.4
92	135.00	.88000	887.00	.9480-01	.6850-01	.1164	.9278	.2678-02	.4234-02	.0000	.0000	244.7
267	135.00	.80000	888.00	.7590-01	.5460-01	.9460-01	.9130	.1359-02	.2482-02	.1630	1.033	544.0
267	135.00	.84000	889.00	.4010-01	.2900-01	.5300-01	.9183	.1341-02	.2485-02	.1580	1.104	546.1
267	135.00	.85000	889.00	.3980-01	.2860-01	.5310-01	.9183	.1472-02	.2759-02	.1710	1.094	547.6
267	135.00	.87000	890.00	.4400-01	.3140-01	.5890-01	.9183	.1339-02	.2529-02	.1540	1.003	548.6
267	135.00	.88000	891.00	.4020-01	.2860-01	.5400-01	.9183	.7363-03	.1392-02	.8500-01	.6180	548.7
267	135.00	.89000	892.00	.2210-01	.1570-01	.2970-01	.9183	.1311-02	.2502-02	.1490	1.084	549.9
267	135.00	.91000	894.00	.3950-01	.2800-01	.5340-01	.9183	.1610-02	.3110-02	.1810	1.305	551.3
267	135.00	.92600	895.00	.4880-01	.3440-01	.6640-01	.9183	.6862-03	.1193-02	.8800-01	.5670	536.1
267	135.00	.95000	896.00	.1990-01	.1470-01	.2550-01	.9183	.6713-03	.1159-02	.8700-01	.5440	535.0
267	142.30	.42000	897.00	.1930-01	.1430-01	.2480-01	.9183	.5392-03	.1024-02	.7500-01	.4950	536.0
267	142.30	.43600	898.00	.1700-01	.1260-01	.2190-01	.9183	.5489-03	.9780-03	.6800-01	.4540	540.2
267	142.30	.45000	899.00	.1600-01	.1170-01	.2090-01	.9183	.1061-02	.1873-02	.1330	.8850	538.7
267	142.30	.50000	900.00	.3080-01	.2270-01	.4000-01	.9183	.1305-02	.2376-02	.1570	1.072	543.6
267	142.30	.60000	901.00	.3850-01	.2790-01	.5080-01	.9183	.1490-02	.2713-02	.1790	1.141	543.6
267	142.30	.70000	902.00	.4330-01	.3180-01	.5790-01	.9183	.1621-02	.3021-02	.1930	1.197	547.0
267	142.30	.80000	903.00	.4840-01	.3460-01	.6460-01	.9183	.6143-03	.1062-02	.7900-01	.5120	539.2
267	142.30	.90000	904.00	.1770-01	.1310-01	.2270-01	.9183	.5644-03	.9796-03	.7200-01	.4710	535.9
267	154.98	.42000	905.00	.1630-01	.1210-01	.2090-01	.9183	.5194-03	.9026-03	.6600-01	.4350	536.1
267	154.98	.43600	906.00	.1800-01	.1330-01	.2330-01	.9183	.6679-03	.1192-02	.8200-01	.5910	540.5
267	154.98	.45000	907.00	.1950-01	.1430-01	.2550-01	.9183	.1630-02	.3131-02	.1840	1.338	550.7
267	154.98	.50000	908.00	.4930-01	.3460-01	.6590-01	.9183	.1677-02	.3227-02	.1890	1.361	550.9
267	154.98	.60000	913.00	.4930-01	.3550-01	.6990-01	.9183	.8316-02	.1380-01	.9050	6.264	555.0
267	154.98	.70000	914.00	.2644	.1776	.2804	.9764	.7917-02	.1333-01	.8670	5.821	555.6
267	154.98	.80000	915.00	.2419	.1691	.2648	.9638	.4739-02	.7701-02	.5790	3.878	541.7
267	154.98	.90000	916.00	.1740	.1312	.1645	.9292	.1059-02	.1804-02	.1390	.9330	532.5
267	154.98	.10000+00	917.00	.4931-01	.3860-01	.6850-01	.9183	.4530-03	.7827-03	.5800-01	.3830	535.1
267	154.98	.11000+00	918.00	.4930-01	.3710-02	.6770-01	.9183	.4305-03	.7407-03	.5500-01	.3670	534.3
267	154.98	.12000+00	919.00	.4930-01	.3460-02	.6580-01	.9183	.4575-03	.7823-03	.5800-01	.3890	534.8
267	154.98	.13000+00	920.00	.4930-01	.3460-02	.6580-01	.9183	.1365-02	.2498-02	.1630	1.057	544.3
267	154.98	.14000+00	921.00	.4930-01	.3460-02	.6580-01	.9183	.1420-02	.2598-02	.1700	1.104	544.2

(IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
267	157.50	.87000	928.00	.3740-01	.2690-01	.4970-01	.9183	.1259-02	.2328-02	.1490	.9690	545.7
267	157.50	.88000	929.00	.4370-01	.3130-01	.5830-01	.9183	.1467-02	.2731-02	.1720	1.125	546.7
267	157.50	.89000	930.00	.4180-01	.2970-01	.5620-01	.9183	.1393-02	.2633-02	.1600	1.054	548.7
267	157.50	.90000	931.00	.3520-01	.2500-01	.4750-01	.9183	.1172-02	.2224-02	.1340	.9040	549.2
267	157.50	.91000	932.00	.2480-01	.1760-01	.3350-01	.9183	.8221-03	.1567-02	.9400-01	.6850	549.7
267	157.50	.92600	933.00	.3930-01	.2780-01	.5320-01	.9183	.1303-02	.2490-02	.1480	1.080	550.0
267	163.12	.41500	934.00	.1380-01	.1030-01	.1760-01	.9183	.4827-03	.8232-03	.6300-01	.4140	532.7
267	163.12	.42000	935.00	.1420-01	.1060-01	.1820-01	.9183	.4949-03	.8510-03	.6400-01	.4220	534.2
267	163.12	.43000	937.00	.1230-01	.9100-02	.1570-01	.9183	.4273-03	.7359-03	.5500-01	.3650	534.5
267	163.12	.44000	938.00	.1350-01	.1000-01	.1730-01	.9183	.4703-03	.8122-03	.6100-01	.3990	535.0
267	163.12	.44500	939.00	.1510-01	.1120-01	.1940-01	.9183	.5251-03	.9081-03	.6800-01	.4510	535.2
267	163.12	.45000	940.00	.1520-01	.1130-01	.1950-01	.9183	.5287-03	.9147-03	.6800-01	.4540	535.3
267	163.12	.50000	941.00	.2090-01	.1530-01	.2720-01	.9183	.7183-03	.1272-02	.8900-01	.6090	539.3
267	163.12	.60000	942.00	.2670-01	.1960-01	.3470-01	.9183	.9180-03	.1625-02	.1140	.7410	539.2
267	163.12	.70000	943.00	.2830-01	.2050-01	.3730-01	.9183	.9513-03	.1747-02	.1160	.7970	543.3
267	163.12	.80000	944.00	.3820-01	.2760-01	.5050-01	.9183	.1293-02	.2366-02	.1550	1.010	544.3
267	168.00	.35000	945.00	.1330-01	.1000-01	.1690-01	.9183	.4681-03	.7930-03	.6200-01	.3960	531.5
267	168.00	.36000	946.00	.1270-01	.9500-02	.1610-01	.9183	.4461-03	.7532-03	.5900-01	.3800	530.8
267	168.00	.37000	947.00	.1370-01	.1020-01	.1740-01	.9183	.4790-03	.8147-03	.6300-01	.4050	532.2
267	168.00	.37500	948.00	.1350-01	.1010-01	.1720-01	.9183	.4737-03	.8053-03	.6200-01	.4010	532.1
267	168.00	.38500	950.00	.1200-01	.9000-02	.1530-01	.9183	.4213-03	.7160-03	.5600-01	.3610	532.1
267	168.00	.39000	951.00	.1260-01	.9400-02	.1600-01	.9183	.4416-03	.7505-03	.5800-01	.3800	532.1
267	168.00	.39500	952.00	.1260-01	.9400-02	.1600-01	.9183	.4401-03	.7494-03	.5800-01	.3720	532.4
267	168.00	.40000	953.00	.1320-01	.9800-02	.1680-01	.9183	.4596-03	.7855-03	.6000-01	.3930	533.1
267	168.00	.40500	954.00	.1310-01	.9800-02	.1680-01	.9183	.4591-03	.7855-03	.6000-01	.3940	533.3
267	168.00	.41000	955.00	.1260-01	.9400-02	.1610-01	.9183	.4404-03	.7541-03	.5700-01	.3770	533.5
267	168.00	.41500	956.00	.1290-01	.9600-02	.1650-01	.9183	.4502-03	.7710-03	.5900-01	.3870	533.5
267	168.00	.42000	957.00	.1300-01	.9700-02	.1670-01	.9183	.4550-03	.7797-03	.5900-01	.3910	533.6
267	168.00	.42500	958.00	.1280-01	.9500-02	.1640-01	.9183	.4466-03	.7675-03	.5800-01	.3830	534.1
267	168.00	.43000	959.00	.1440-01	.1070-01	.1840-01	.9193	.5007-03	.8613-03	.6500-01	.4270	534.3
267	168.00	.44000	960.00	.1610-01	.1200-01	.2060-01	.9183	.5609-03	.9657-03	.7300-01	.4790	534.4
267	168.00	.44500	961.00	.1560-01	.1160-01	.2000-01	.9183	.5411-03	.9345-03	.7000-01	.4600	535.0
267	168.00	.45500	963.00	.1800-01	.1340-01	.2310-01	.9183	.6254-03	.1082-02	.8000-01	.5340	535.2
267	168.00	.46000	964.00	.1980-01	.1460-01	.2540-01	.9183	.6849-03	.1191-02	.8700-01	.5840	536.2
267	168.00	.47000	965.00	.2140-01	.1580-01	.2760-01	.9183	.7405-03	.1291-02	.9400-01	.6310	536.6
267	168.00	.48000	966.00	.2110-01	.1550-01	.2720-01	.9183	.7264-03	.1275-02	.9200-01	.6180	537.8
267	168.00	.49000	967.00	.2120-01	.1560-01	.2740-01	.9183	.7312-03	.1283-02	.9200-01	.6230	537.7
267	168.00	.85000	968.00	.4350-01	.3140-01	.5750-01	.9183	.1470-02	.2692-02	.1760	1.141	544.3
267	168.00	.86000	969.00	.4270-01	.3070-01	.5670-01	.9183	.1439-02	.2653-02	.1710	1.111	545.3
267	168.00	.87000	970.00	.4660-01	.3350-01	.6200-01	.9183	.1568-02	.2903-02	.1850	1.206	545.9
267	168.00	.88000	971.00	.4780-01	.3410-01	.6400-01	.9183	.1597-02	.2995-02	.1860	1.214	547.6
267	168.00	.89000	972.00	.4880-01	.3470-01	.6570-01	.9183	.1625-02	.3077-02	.1870	1.239	548.9
267	168.00	.90000	973.00	.3940-01	.2810-01	.5300-01	.9183	.1316-02	.2481-02	.1520	1.034	548.3

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F20)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
267	168.00	.9:000	974.00	.2560-01	.1820-01	.3450-01	.9183	.8514-03	.1614-02	.9800-01	.7120	549.1
267	168.00	.92800	975.00	.4190-01	.2970-01	.5670-01	.9183	.1390-02	.2655-02	.1580	1.145	550.0
267	168.00	.95000	976.00	.5520-01	.3980-01	.7600-01	.9183	.1664-02	.3559-02	.2120	1.525	550.0
267	168.00	.97200	977.00	.1289	.9650-01	.1328	.9458	.4473-02	.6217-02	.5730	4.008	535.7
267	168.00	.98400	982.00	.1879	.1353	.1958	.9440	.6380-02	.9814-02	.7710	5.337	543.0
267	168.00	.99600	983.00	.2262	.1600	.2472	.9425	.7490-02	.1129-01	.8490	5.818	550.5
267	168.00	1.0080	984.00	.2072	.1468	.2207	.9411	.6956-02	.1050-01	.7880	5.099	552.7
267	168.00	1.0200	985.00	.2352	.1661	.2563	.9360	.7870-02	.1239-01	.8930	5.736	553.6
267	168.00	1.0320	986.00	.2554	.1779	.2703	.9362	.8431-02	.1422-01	.9580	5.918	552.8
267	168.00	1.0440	987.00	.2672	.1895	.2826	.9328	.8880-02	.1654-01	.1000	5.612	552.2
267	168.00	1.0560	988.00	.2873	.2039	.3043	.9303	.9252-02	.1964-01	.1040	5.191	544.2
267	168.00	1.0680	989.00	.1088	.7750-01	.1204	.9502	.3719-02	.6323-02	.4260	1.660	542.2
267	168.00	1.0800	990.00	.1440	.1026-01	.1540	.9340	.4775-02	.3006-02	.2100	.9600	537.3
267	168.00	1.0920	991.00	.2001	.1420-01	.2180	.9133	.7091-03	.1023-02	.9510-01	.4600	537.0
267	168.00	1.1040	992.00	.1480	.1060-01	.1610	.9193	.5094-03	.8774-03	.6800-01	.3600	537.7
267	168.00	1.1160	993.00	.1000	.7100-02	.1080	.9183	.3565-03	.6802-03	.4900-01	.2300	538.6
267	168.00	1.1280	994.00	.8500-01	.6000-02	.9183	.9183	.3705-03	.4620-03	.3300-01	.1600	538.8
267	168.00	1.1400	995.00	.7000-01	.5000-02	.7630-01	.9183	.2644-03	.4620-03	.3300-01	.1600	538.5
267	168.00	1.1520	996.00	.6000-01	.4200-02	.6540-01	.9183	.3822-03	.6551-03	.4600-01	.2200	538.9
267	168.00	1.1640	997.00	.5000-01	.3500-02	.5450-01	.9183	.2468-03	.4310-03	.3100-01	.1500	538.9
267	168.00	1.1760	998.00	.4000-01	.2800-02	.4360-01	.9183	.3735-03	.6551-03	.4600-01	.2200	538.9
267	168.00	1.1880	999.00	.3000-01	.2100-02	.3270-01	.9183	.3919-03	.6551-03	.4600-01	.2200	538.9
267	168.00	1.2000	1000.0	.2000-01	.1400-02	.2180-01	.9183	.2468-03	.4310-03	.3100-01	.1500	538.9
267	168.00	1.2120	1001.0	.1000-01	.7000-03	.1090-01	.9183	.1234-03	.2155-03	.1550-01	.7400-01	538.9
267	168.00	1.2240	1002.0	.1000-01	.7000-03	.1090-01	.9183	.1234-03	.2155-03	.1550-01	.7400-01	538.9
267	168.00	1.2360	1003.0	.1000-01	.7000-03	.1090-01	.9183	.1234-03	.2155-03	.1550-01	.7400-01	538.9
267	168.00	1.2480	1004.0	.1000-01	.7000-03	.1090-01	.9183	.1234-03	.2155-03	.1550-01	.7400-01	538.9
267	168.00	1.2600	1005.0	.1000-01	.7000-03	.1090-01	.9183	.1234-03	.2155-03	.1550-01	.7400-01	538.9
267	168.00	1.2720	1006.0	.1000-01	.7000-03	.1090-01	.9183	.1234-03	.2155-03	.1550-01	.7400-01	538.9
267	168.00	1.2840	1007.0	.1000-01	.7000-03	.1090-01	.9183	.1234-03	.2155-03	.1550-01	.7400-01	538.9
267	168.00	1.2960	1008.0	.1000-01	.7000-03	.1090-01	.9183	.1234-03	.2155-03	.1550-01	.7400-01	538.9
267	168.00	1.3080	1009.0	.1000-01	.7000-03	.1090-01	.9183	.1234-03	.2155-03	.1550-01	.7400-01	538.9
267	168.00	1.3200	1010.0	.1000-01	.7000-03	.1090-01	.9183	.1234-03	.2155-03	.1550-01	.7400-01	538.9
267	168.00	1.3320	1011.0	.1000-01	.7000-03	.1090-01	.9183	.1234-03	.2155-03	.1550-01	.7400-01	538.9
267	168.00	1.3440	1012.0	.1000-01	.7000-03	.1090-01	.9183	.1234-03	.2155-03	.1550-01	.7400-01	538.9
267	168.00	1.3560	1013.0	.1000-01	.7000-03	.1090-01	.9183	.1234-03	.2155-03	.1550-01	.7400-01	538.9
267	168.00	1.3680	1014.0	.1000-01	.7000-03	.1090-01	.9183	.1234-03	.2155-03	.1550-01	.7400-01	538.9
267	168.00	1.3800	1015.0	.1000-01	.7000-03	.1090-01	.9183	.1234-03	.2155-03	.1550-01	.7400-01	538.9
267	168.00	1.3920	1016.0	.1000-01	.7000-03	.1090-01	.9183	.1234-03	.2155-03	.1550-01	.7400-01	538.9
267	168.00	1.4040	1017.0	.1000-01	.7000-03	.1090-01	.9183	.1234-03	.2155-03	.1550-01	.7400-01	538.9
267	168.00	1.4160	1018.0	.1000-01	.7000-03	.1090-01	.9183	.1234-03	.2155-03	.1550-01	.7400-01	538.9
267	168.00	1.4280	1019.0	.1000-01	.7000-03	.1090-01	.9183	.1234-03	.2155-03	.1550-01	.7400-01	538.9
267	168.00	1.4400	1020.0	.1000-01	.7000-03	.1090-01	.9183	.1234-03	.2155-03	.1550-01	.7400-01	538.9

(RV7F20)

(IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
90	180.00	.85000	641.00	.5090-01	.3770-01	.6530-01	.9183	.1788-02	.3096-02	.2310	1.465	538.0
90	180.00	.86000	642.00	.5100-01	.3780-01	.6550-01	.9183	.1791-02	.3103-02	.2310	1.486	538.1
90	180.00	.87000	643.00	.6360-01	.4710-01	.8190-01	.9183	.2233-02	.3880-02	.2870	1.856	538.6
90	180.00	.88000	644.00	.7380-01	.5470-01	.9490-01	.9183	.2592-02	.4496-02	.3330	2.178	538.3
90	180.00	.89000	645.00	.5820-01	.4320-01	.7450-01	.9183	.2047-02	.3531-02	.2650	1.755	537.3
90	180.00	.90000	646.00	.4670-01	.3490-01	.5930-01	.9183	.1654-02	.2812-02	.2190	1.480	534.7
90	180.00	.92000	648.00	.4390-01	.3270-01	.5620-01	.9183	.1549-02	.2663-02	.2020	1.481	536.6
90	180.00	.95000	649.00	.6310-01	.4670-01	.8120-01	.9183	.2212-02	.3850-02	.2830	2.054	538.9
90	191.25	.86000	651.00	.4700-02	.3500-02	.6000-02	.9183	.1670-03	.2865-03	.2200-01	.1480	536.3
90	191.25	.87000	652.00	.4800-02	.3600-02	.6100-02	.9183	.1687-03	.2896-03	.2200-01	.1490	536.4
90	191.25	.87500	653.00	.4400-02	.3200-02	.5600-02	.9183	.1539-03	.2646-03	.2000-01	.1360	536.7
90	191.25	.88000	654.00	.6900-02	.5200-02	.8900-02	.9183	.2446-03	.4200-03	.3200-01	.2160	536.5
90	191.25	.88500	655.00	.6300-02	.4700-02	.8100-02	.9183	.2228-03	.3831-03	.2900-01	.1970	536.7
90	191.25	.89000	656.00	.8700-02	.6500-02	.1120-01	.9183	.3080-03	.5292-03	.4000-01	.2720	536.6
90	191.25	.89500	657.00	.1720-01	.1280-01	.2190-01	.9183	.6062-03	.1039-02	.7900-01	.5370	536.2
90	191.25	.89500	658.00	.1820-01	.1360-01	.2330-01	.9183	.6438-03	.1105-02	.8400-01	.5710	536.5
90	191.25	.90000	659.00	.1410-01	.1050-01	.1810-01	.9183	.4989-03	.8575-03	.6600-01	.4420	536.7
90	191.25	.90500	660.00	.1340-01	.1000-01	.1720-01	.9183	.4728-03	.8152-03	.6100-01	.4160	537.2
90	191.25	.91000	661.00	.1530-01	.1130-01	.1960-01	.9183	.5377-03	.9283-03	.7000-01	.4700	537.5
90	191.25	.91500	662.00	.1730-01	.1290-01	.2230-01	.9183	.6096-03	.1055-02	.7900-01	.5330	537.9
90	191.25	.92000	663.00	.1820-01	.1350-01	.2330-01	.9183	.6391-03	.1105-02	.8300-01	.5550	537.7
90	191.25	.92500	664.00	.2050-01	.1520-01	.2630-01	.9183	.7192-03	.1246-02	.9300-01	.6200	538.1
90	191.25	.93000	665.00	.2330-01	.1730-01	.3000-01	.9183	.8179-03	.1419-02	.1050	.7100	538.4
90	191.25	.93500	666.00	.2730-01	.2020-01	.3510-01	.9183	.9580-03	.1661-02	.1230	.8400	538.3
90	191.25	.94000	667.00	.2710-01	.2010-01	.3490-01	.9183	.9528-03	.1653-02	.1230	.8360	539.3
90	191.25	.94500	668.00	.2820-01	.2090-01	.3620-01	.9183	.9904-03	.1716-02	.1280	.8700	538.8
90	191.25	.95000	669.00	.3210-01	.2380-01	.4120-01	.9183	.1129-02	.1952-02	.1460	.9910	538.8
90	191.25	.95500	670.00	.4520-01	.3350-01	.5790-01	.9183	.1592-02	.2746-02	.2060	1.410	538.3
90	191.25	.96000	671.00	.3330-01	.2470-01	.4270-01	.9183	.1169-02	.2023-02	.1510	1.030	538.1
90	191.25	.96500	672.00	.3330-01	.2470-01	.4260-01	.9183	.1170-02	.2023-02	.1510	1.032	537.6
90	191.25	.97000	673.00	.3760-01	.2790-01	.4830-01	.9183	.1321-02	.2287-02	.1700	1.197	538.0
90	191.25	.97500	674.00	.4460-01	.3300-01	.5730-01	.9183	.1563-02	.2716-02	.2000	1.389	538.7
90	191.25	.98000	675.00	.5810-01	.4310-01	.7460-01	.9183	.2040-02	.3534-02	.2630	1.870	538.1
90	191.25	.98500	676.00	.6190-01	.4580-01	.7960-01	.9183	.2172-02	.3771-02	.2790	1.791	538.5
90	191.25	.99000	677.00	.6390-01	.4730-01	.8230-01	.9183	.2243-02	.3898-02	.2880	1.863	538.7
90	191.25	.87000	678.00	.6270-01	.4640-01	.8060-01	.9183	.2200-02	.3821-02	.2830	1.852	538.5
90	191.25	.88000	679.00	.6510-01	.4820-01	.8360-01	.9183	.2286-02	.3963-02	.2940	1.957	538.2
90	191.25	.89000	680.00	.6010-01	.4470-01	.7690-01	.9183	.2117-02	.3642-02	.2760	1.667	536.8
90	191.25	.90000	681.00	.4420-01	.3310-01	.5600-01	.9183	.1569-02	.2656-02	.2090	1.535	533.8
90	191.25	.91000	682.00	.5680-01	.4230-01	.7260-01	.9183	.2004-02	.3441-02	.2610	1.924	536.5
90	191.25	.92600	683.00	.7830-01	.5790-01	.1008	.9183	.2743-02	.4778-02	.3510	2.544	539.1
90	191.25	.95000	684.00	.5300-02	.3900-02	.6800-02	.9183	.1867-03	.3202-03	.2400-01	.1650	536.3
90	197.00	.33000	685.00	.7000-02	.5200-02	.9000-02	.9183	.2487-03	.4268-03	.3200-01	.2190	536.4
90	197.00	.34000	686.00									

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F20)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
90	197.00	.35000	687.00	.5600-02	.4200-02	.7200-02	.9183	.1974-03	.3389-03	.2600-01	.1740	536.5
90	197.00	.36000	688.00	.7300-02	.5400-02	.9300-02	.9183	.2567-03	.4404-03	.3400-01	.2270	536.3
90	197.00	.37000	689.00	.7300-02	.5400-02	.9300-02	.9183	.2570-03	.4416-03	.3400-01	.2260	536.6
90	197.00	.50000	691.00	.2260-01	.2200-01	.3800-01	.9183	.1041-02	.1739-02	.1350	.9090	537.7
90	197.00	.60000	692.00	.4120-01	.3060-01	.5290-01	.9183	.1449-02	.2506-02	.870	1.212	537.8
90	197.00	[illegible]	693.00	.5370-01	.3990-01	.6930-01	.9183	.1889-02	.3267-02	[illegible]	1.663	537.8
90	197.00	.80000	[illegible]	.5510-01	.4090-01	[illegible]	.9183	.1938-02	.3351-02	.2500	1.681	537.8
90	197.00	.87[illegible]	[illegible]	[illegible]	.5660-01	[illegible]	.9183	[illegible]	[illegible]	.3450	[illegible]	[illegible]
90	197.00	.92600	696.00	[illegible]	.5330-01	[illegible]	.9183	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = 10.00 BETA = -6.000 GRIT = 3.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	PHO SLUGS /FT3
60	5.500	4.962	10.03	6.000	-31.00	177.8	.1910	743.0	105.4	4.047	2767.	.1522-03
61	5.500	4.959	10.04	6.000	-31.00	177.8	.1910	743.0	105.4	4.047	2767.	.1521-03
62	5.500	4.971	10.05	6.000	-31.00	178.0	.1910	743.0	105.3	4.052	2768.	.1524-03
258	5.500	4.986	10.01	6.000	-31.00	178.2	.1920	742.0	105.2	4.056	2764.	.1528-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	SF FR REF(R) =.0175
60	8485-07	.4477-01	.1365-01
61	.8489-07	.4478-01	.1365-01
62	.8480-07	.4479-01	.1364-01
258	8489-07	.4481-01	.1362-01

TEST DATA

RUN NUMBER	PHI	L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
61	.00000	.30000-02	730.00	.4416	.3329	.3693	.9799	.1490-01	.1654-01	2.249	15.70	592.4
61	.00000	.10000-01	731.00	.2423	.1944	.2886	.9182	.8704-02	.1298-01	1.622	11.91	587.0
61	.00000	.18000-01	732.00	.2761	.2196	.3303	.9188	.9833-02	.1479-01	1.755	12.55	581.7
61	.00000	.25000-01	733.00	.4706	.3538	.4002	.9767	.1584-01	.1792-01	2.370	15.69	593.7
61	.00000	.35000-01	734.00	.6917	.4977	.5807	.9745	.2228-01	.2600-01	2.980	19.23	612.1
61	.00000	.45000-01	735.00	.6573	.4733	.5520	.9732	.2119-01	.2472-01	2.951	19.71	603.6
61	.00000	.55000-01	736.00	.5461	.3837	.4438	.9717	.1718-01	.1987-01	2.664	17.03	589.2
61	.00000	.65000-01	737.00	.5455	.3916	.4576	.9700	.1753-01	.2049-01	2.712	17.58	593.8
61	.00000	.75000-01	738.00	.4718	.3530	.4274	.9649	.1567-01	.1914-01	2.258	14.79	559.2
61	.00000	.70000-01	740.00	.4639	.3408	.4283	.9615	.1526-01	.1913-01	2.137	14.05	603.2
61	.00000	.80000-01	741.00	.3936	.2953	.3732	.9582	.1322-01	.1671-01	1.968	13.97	594.5
61	.00000	.10000+00	742.00	.3539	.2717	.3501	.9518	.1216-01	.1568-01	1.945	12.76	583.4
61	.00000	.12500	743.00	.2698	.2059	.2798	.9442	.9222-02	.1253-01	1.448	10.32	586.3
61	.00000	.15000	744.00	.2123	.1654	.2287	.9373	.7407-02	.1024-01	1.248	8.553	574.9
61	.00000	.17500	745.00	.1400	.1108	.1556	.9309	.4963-02	.6967-02	.8860	6.596	564.8
61	.00000	.20000	746.00	.1168	.9340-01	.1333	.9253	.4181-02	.5970-02	.7750	5.510	558.1

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RVTF20)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
61	.00000	.21500	747.00	.9390-01	.7540-01	.1086	.9224	.3374-02	.4862-02	.6360	4.390	554.8
61	.00000	.23000	748.00	.7310-01	.5870-01	.8590-01	.9197	.2626-02	.3845-02	.4940	3.639	555.0
61	.00000	.24000	749.00	.6650-01	.5350-01	.7880-01	.9182	.2394-02	.3528-02	.4530	3.405	554.0
61	.00000	.25000	750.00	.4050-01	.3270-01	.4780-01	.9182	.1465-02	.2141-02	.2830	2.282	550.5
61	.00000	.30000	751.00	.7310-01	.5890-01	.8650-01	.9182	.2635-02	.3874-02	.5020	3.281	553.0
61	.00000	.35000	752.00	.7390-01	.5970-01	.8720-01	.9182	.2671-02	.3903-02	.5150	3.250	550.5
61	.00000	.40000	753.00	.7120-01	.5750-01	.8390-01	.9182	.2574-02	.3756-02	.4970	3.192	550.1
61	.00000	.60000	754.00	.6750-01	.5430-01	.8000-01	.9182	.2429-02	.3592-02	.4590	2.994	554.2
61	.00000	.69000	755.00	.6400-01	.5150-01	.7570-01	.9182	.2308-02	.3391-02	.4390	2.808	552.9
61	.00000	.70000	756.00	.6950-01	.5430-01	.8210-01	.9182	.2431-02	.3677-02	.4360	2.923	563.8
61	.00000	.80000	757.00	.5610-01	.4680-01	.7100-01	.9182	.2094-02	.3177-02	.3740	2.533	564.7
61	.00000	.90000	758.00	.2530-01	.2000-01	.3030-01	.9182	.8973-03	.1357-02	.1610	1.059	563.8
61	.00000	.95000	759.00	.8470-01	.6800-01	.9810-01	.9222	.3046-02	.4393-02	.5150	3.437	554.6
61	.55000	.22000	760.00	.6810-01	.5630-01	.7390-01	.9187	.2426-02	.3374-02	.3820	3.141	551.5
61	.55000	.25000	761.00	.6670-01	.4940-01	.7320-01	.9167	.2212-02	.3277-02	.4110	3.078	557.5
61	.55000	.27000	762.00	.7380-01	.5420-01	.8410-01	.9187	.2676-02	.4214-02	.5470	3.480	553.1
61	.55000	.28000	763.00	.7800-01	.6280-01	.9190-01	.9187	.2816-02	.4116-02	.5390	3.708	551.9
61	.55000	.34000	764.00	.7580-01	.6.10-01	.8820-01	.9187	.2737-02	.3954-02	.5280	3.660	551.4
61	.55000	.36000	765.00	.7810-01	.6300-01	.9180-01	.9187	.2821-02	.4111-02	.5430	3.807	553.7
61	.55000	.38000	766.00	.7750-01	.6260-01	.9110-01	.9187	.2802-02	.4080-02	.5410	3.849	550.5
61	.55000	.40000	767.00	.7469-01	.6020-01	.8760-01	.9187	.2696-02	.3923-02	.5210	3.665	550.1
61	.55000	.46000	768.00	.7280-01	.5860-01	.8550-01	.9192	.2634-02	.3850-02	.5110	3.552	552.5
61	.57500	.22000	769.00	.4080-01	.3300-01	.4920-01	.9177	.1479-02	.2159-02	.2870	2.022	555.1
61	.57500	.25000	770.00	.5810-01	.4740-01	.7050-01	.9177	.2122-02	.3099-02	.4120	2.888	555.6
61	.57500	.27000	771.00	.4830-01	.3950-01	.5760-01	.9177	.1759-02	.2567-02	.3410	2.418	549.8
61	.57500	.28000	772.00	.7140-01	.5800-01	.8540-01	.9177	.2602-02	.3798-02	.5050	3.559	551.7
61	.57500	.30000	773.00	.7580-01	.6170-01	.9060-01	.9177	.2762-02	.4032-02	.5360	3.813	551.0
61	.57500	.32000	774.00	.7410-01	.6020-01	.8850-01	.9177	.2699-02	.3940-02	.5240	3.727	549.4
61	.57500	.34000	775.00	.7441-01	.6050-01	.8890-01	.9177	.2711-02	.3958-02	.5260	3.741	549.2
61	.57500	.36000	776.00	.8010-01	.6510-01	.9560-01	.9177	.2918-02	.4258-02	.5660	4.027	549.3
61	.57500	.38000	777.00	.7950-01	.6460-01	.9490-01	.9177	.2896-02	.4227-02	.5620	3.996	549.9
61	.57500	.40000	778.00	.8000-01	.6500-01	.9550-01	.9177	.2914-02	.4253-02	.5650	4.020	548.9
61	.57500	.46000	779.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	.50000	780.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	.54000	781.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.5
61	.57500	.58000	782.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.5
61	.57500	.62000	783.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.8
61	.57500	.66000	784.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	550.0
61	.57500	.70000	785.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	550.0
61	.57500	.74000	786.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	.78000	787.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	.82000	788.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	.86000	789.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	.90000	790.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	.94000	791.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	.98000	792.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	.99000	793.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	.99500	794.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	.99900	795.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	.99990	796.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	.99999	797.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	798.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	799.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	800.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	801.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	802.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	803.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	804.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	805.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	806.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	807.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	808.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	809.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	810.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	811.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	812.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	813.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	814.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	815.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	816.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	817.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	818.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	819.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	820.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	821.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	822.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	823.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	824.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	825.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	826.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	827.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	828.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	829.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	830.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	831.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	832.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	833.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	834.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	835.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	836.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	837.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	838.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	839.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	840.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	841.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	842.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	843.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	844.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	845.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	846.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	847.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	848.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	849.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	850.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	851.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	852.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	853.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	854.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	855.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	856.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	857.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	858.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	859.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	860.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	861.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	862.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	863.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	864.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	865.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	866.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	867.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	868.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9
61	.57500	1.00000	869.00	.8330-01	.6770-01	.9940-01	.9177	.3034-02	.4428-02	.5890	4.187	549.9

DATE 03 JUN 76 . AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F20)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	HI(TO) BTU/ R FT2SEC	HI(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
258	67.500	.60000	790.00	.8200-01	.5860-01	.9830-01	.9293	.3248-02	.5447-02	.3870	2.523	561.8
258	67.500	.70000	791.00	.8800-01	.6080-01	.1079	.9293	.3371-02	.5994-02	.3720	2.595	570.7
258	67.500	.80000	792.00	.9450-01	.6590-01	.1153	.9293	.3652-02	.6399-02	.4110	2.552	568.6
258	67.500	.90000	793.00	.6470-01	.4280-01	.8210-01	.9293	.2373-02	.4553-02	.2350	1.614	580.4
258	78.000	.27000	794.00	.7020-01	.4960-01	.8500-01	.9290	.6750-02	.4712-02	.3190	2.256	565.3
258	78.000	.28000	795.00	.1090	.7640-01	.1328	.9290	.4235-02	.7384-02	.4220	2.939	567.3
62	78.000	.30000	796.00	.6370-01	.5130-01	.7600-01	.9165	.2298-02	.3405-02	.4350	2.852	551.3
62	78.000	.31000	797.00	.6580-01	.5310-01	.7850-01	.9165	.2378-02	.3516-02	.4500	2.757	550.9
62	78.000	.32000	798.00	.6490-01	.5240-01	.7730-01	.9165	.2347-02	.3468-02	.4390	2.718	550.1
62	78.000	.32500	799.00	.6830-01	.5270-01	.7780-01	.9165	.2362-02	.3484-02	.4450	2.744	550.1
62	78.000	.33000	800.00	.6880-01	.5060-01	.7460-01	.9165	.2266-02	.3339-02	.4270	2.639	549.1
62	78.000	.33500	801.00	.6390-01	.5100-01	.7520-01	.9165	.2286-02	.3368-02	.4	2.6	548.8
62	78.000	.34000	802.00	.6060-01	.4900-01	.7210-01	.9165	.2196-02	.3228-02	.4060	2.560	548.8
62	78.000	.34500	803.00	.5870-01	.4820-01	.7100-01	.9165	.2162-02	.3178-02	.4160	2.533	548.8
62	78.000	.35000	804.00	.6100-01	.4990-01	.7350-01	.9165	.2236-02	.3291-02	.4300	2.601	548.8
62	78.000	.35500	805.00	.5960-01	.4820-01	.7080-01	.9165	.2167-02	.3191-02	.4160	2.574	548.5
62	78.000	.36000	806.00	.5860-01	.3920-01	.5770-01	.9165	.1757-02	.2884-02	.3410	2.180	548.8
62	78.000	.36500	807.00	.6610-01	.4360-01	.6360-01	.9165	.1934-02	.2849-02	.3750	2.399	548.8
62	78.000	.37000	808.00	.6610-01	.4560-01	.6710-01	.9165	.2042-02	.3008-02	.3960	2.533	548.9
62	78.000	.37500	809.00	.6610-01	.4940-01	.7270-01	.9165	.2213-02	.3258-02	.4280	2.737	548.9
62	78.000	.38000	810.00	.6760-01	.4960-01	.6890-01	.9165	.2071-02	.3041-02	.4010	2.564	548.9
62	78.000	.38500	811.00	.6590-01	.4510-01	.6640-01	.9165	.2028-02	.2974-02	.3910	2.501	548.9
62	78.000	.39000	812.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.39500	813.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.40000	814.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.40500	815.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.41000	816.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.41500	817.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.42000	818.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.42500	819.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.43000	820.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.43500	821.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.44000	822.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.44500	823.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.45000	824.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.45500	825.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.46000	826.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.46500	827.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.47000	828.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.47500	829.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.48000	830.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.48500	831.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.49000	832.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.49500	833.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.50000	834.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.50500	835.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.51000	836.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.51500	837.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.52000	838.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.52500	839.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.53000	840.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.53500	841.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.54000	842.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.54500	843.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.55000	844.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.55500	845.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.56000	846.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.56500	847.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.57000	848.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.57500	849.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.58000	850.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.58500	851.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.59000	852.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.59500	853.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.60000	854.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.60500	855.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.61000	856.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.61500	857.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.62000	858.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.62500	859.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.63000	860.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.63500	861.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.64000	862.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.64500	863.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.65000	864.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.65500	865.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.66000	866.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.66500	867.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.67000	868.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.67500	869.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.68000	870.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.68500	871.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.69000	872.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.69500	873.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.70000	874.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.70500	875.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.71000	876.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.71500	877.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.72000	878.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.72500	879.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.73000	880.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.73500	881.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.74000	882.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.74500	883.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.75000	884.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.75500	885.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.76000	886.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.76500	887.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.77000	888.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.77500	889.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.78000	890.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.78500	891.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.79000	892.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.79500	893.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.80000	894.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.80500	895.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.81000	896.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.81500	897.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.82000	898.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.82500	899.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.83000	900.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.83500	901.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.84000	902.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.84500	903.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.85000	904.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.85500	905.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.86000	906.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.86500	907.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.87000	908.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.87500	909.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.88000	910.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.88500	911.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.89000	912.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.89500	913.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.90000	914.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.90500	915.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.91000	916.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.91500	917.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.92000	918.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.92500	919.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.93000	920.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.93500	921.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.94000	922.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.94500	923.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.95000	924.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.95500	925.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.96000	926.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.96500	927.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.97000	928.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.97500	929.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.98000	930.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.98500	931.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.99000	932.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	.99500	933.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	1.00000	934.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	1.00500	935.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	1.01000	936.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	1.01500	937.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	1.02000	938.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	1.02500	939.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	1.03000	940.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	1.03500	941.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	1.04000	942.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	1.04500	943.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	1.05000	944.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	1.05500	945.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	1.06000	946.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	1.06500	947.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	1.07000	948.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	1.07500	949.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	1.08000	950.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	1.08500	951.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	1.09000	952.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	1.09500	953.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	1.10000	954.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	1.10500	955.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	1.11000	956.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	1.11500	957.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	1.12000	958.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	1.12500	959.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	1.13000	960.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	1.13500	961.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	1.14000	962.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	1.14500	963.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	1.15000	964.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	1.15500	965.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	1.16000	966.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	1.16500	967.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	1.17000	968.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	1.17500	969.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	1.18000	970.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	1.18500	971.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	1.19000	972.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	1.19500	973.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	1.20000	974.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	1.20500	975.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	1.21000	976.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	1.21500	977.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	1.22000	978.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	1.22500	979.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	1.23000	980.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	1.23500	981.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	1.24000	982.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	1.24500	983.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589	548.9
62	78.000	1.25000	984.00	.6590-01	.4690-01	.6860-01	.9165	.2085-02	.3073-02	.4050	2.589

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F20)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
62	90.000	.37500	831.00	.5220-01	.4230-01	.6220-01	.9152	.1895-02	.2788-02	.3730	2.276	545.8
62	90.000	.38000	832.00	.5140-01	.4170-01	.6140-01	.9152	.1858-02	.2749-02	.3670	2.236	545.2
62	90.000	.39000	833.00	.4830-01	.3920-01	.5770-01	.9152	.1757-02	.2584-02	.3460	2.131	545.9
62	90.000	.40000	834.00	.5070-01	.4110-01	.6050-01	.9152	.1841-02	.2711-02	.3610	2.233	545.3
62	90.000	.50000	835.00	.4770-01	.3840-01	.5730-01	.9152	.1719-02	.2558-02	.3280	2.066	552.0
62	90.000	.60000	836.00	.4950-01	.3930-01	.5940-01	.9152	.1789-02	.2669-02	.3440	2.266	550.3
62	90.000	.70000	837.00	.4510-01	.3610-01	.5470-01	.9152	.1616-02	.2446-02	.3090	2.105	555.9
62	90.000	.80000	838.00	.4260-01	.3400-01	.5080-01	.9152	.1524-02	.2275-02	.2810	1.922	551.8
62	90.000	.90000	839.00	.2190-01	.1760-01	.2630-01	.9152	.7900-03	.1179-02	.1510	.9630	551.5
62	112.50	.23000	840.00	.3580-01	.2910-01	.4290-01	.9138	.1303-02	.1923-02	.2590	2.090	543.9
62	112.50	.25000	841.00	.1590-01	.1300-01	.1910-01	.9133	.5803-03	.8572-03	.1160	.9220	542.7
62	112.50	.27000	842.00	.1790-01	.1460-01	.2150-01	.9133	.6524-03	.9653-03	.1300	.8080	543.9
62	112.50	.30000	843.00	.3990-01	.3230-01	.4790-01	.9133	.1448-02	.2144-02	.2870	1.711	544.2
62	112.50	.33000	844.00	.3540-01	.2880-01	.4250-01	.9133	.1290-02	.1902-02	.2550	1.559	542.5
62	112.50	.34000	845.00	.3770-01	.3070-01	.4520-01	.9133	.1374-02	.2026-02	.2750	1.632	542.2
62	112.50	.35000	846.00	.3730-01	.3040-01	.4480-01	.9133	.1353-02	.2007-02	.2740	1.680	541.8
62	112.50	.37000	847.00	.3410-01	.2780-01	.4090-01	.9133	.1244-02	.1831-02	.2500	1.563	541.5
62	112.50	.40000	848.00	.3150-01	.2570-01	.3780-01	.9133	.1151-02	.1694-02	.2310	1.458	541.5
62	112.50	.45000	849.00	.3330-01	.2710-01	.4010-01	.9133	.1213-02	.1784-02	.2440	1.553	543.7
62	112.50	.50000	849.00	.2690-01	.2190-01	.3230-01	.9133	.9793-03	.1441-02	.1960	1.326	543.4
62	112.50	.55000	850.00	.2590-01	.2100-01	.3530-01	.9133	.1075-02	.1582-02	.2160	1.450	541.8
62	112.50	.60000	851.00	.2940-01	.2400-01	.3530-01	.9133	.1098-02	.1618-02	.2210	1.552	542.0
62	112.50	.65000	852.00	.3010-01	.2450-01	.3610-01	.9133	.1004-02	.1491-02	.1980	1.390	545.4
62	112.50	.70000	853.00	.2760-01	.2240-01	.3330-01	.9133	.8645-03	.1279-02	.1760	1.215	544.0
62	112.50	.75000	854.00	.2370-01	.1930-01	.2860-01	.9133	.7422-03	.1095-02	.1510	.9370	542.1
62	112.50	.80000	855.00	.3430-01	.2800-01	.4120-01	.9133	.1041-02	.1534-02	.2080	1.367	542.1
62	112.50	.90000	856.00	.2850-01	.2320-01	.3420-01	.9133	.8646-03	.1274-02	.1730	1.146	538.0
62	125.40	.60000	857.00	.3700-01	.3070-01	.4430-01	.9130	.1178-02	.1710-02	.2380	1.787	538.4
62	125.40	.85000	858.00	.3810-01	.3120-01	.4550-01	.9130	.1193-02	.1734-02	.2410	1.810	539.1
62	125.40	.86000	859.00	.3800-01	.3110-01	.4550-01	.9130	.1191-02	.1731-02	.2400	1.810	539.9
62	125.40	.87000	860.00	.3760-01	.3080-01	.4500-01	.9130	.1178-02	.1711-02	.2380	1.787	539.9
62	125.40	.88000	861.00	.3770-01	.3090-01	.4520-01	.9130	.1181-02	.1716-02	.2390	1.787	539.9
62	125.40	.89000	862.00	.3770-01	.3090-01	.4520-01	.9130	.1181-02	.1716-02	.2390	1.787	539.9
62	125.40	.90000	863.00	.3760-01	.3080-01	.4500-01	.9130	.1178-02	.1711-02	.2380	1.787	539.9
62	125.40	.91000	864.00	.3760-01	.3080-01	.4500-01	.9130	.1178-02	.1711-02	.2380	1.787	539.9
62	125.40	.92000	865.00	.3760-01	.3080-01	.4500-01	.9130	.1178-02	.1711-02	.2380	1.787	539.9
62	125.40	.93000	866.00	.3760-01	.3080-01	.4500-01	.9130	.1178-02	.1711-02	.2380	1.787	539.9
62	129.30	.80000	867.00	.3760-01	.3080-01	.4500-01	.9130	.1178-02	.1711-02	.2380	1.787	539.9
62	129.30	.81000	868.00	.3760-01	.3080-01	.4500-01	.9130	.1178-02	.1711-02	.2380	1.787	539.9
62	129.30	.82000	869.00	.3760-01	.3080-01	.4500-01	.9130	.1178-02	.1711-02	.2380	1.787	539.9
62	129.30	.83000	870.00	.3760-01	.3080-01	.4500-01	.9130	.1178-02	.1711-02	.2380	1.787	539.9
62	129.30	.84000	871.00	.3760-01	.3080-01	.4500-01	.9130	.1178-02	.1711-02	.2380	1.787	539.9
62	129.30	.85000	872.00	.3760-01	.3080-01	.4500-01	.9130	.1178-02	.1711-02	.2380	1.787	539.9
62	135.00	.60000	873.00	.3760-01	.3080-01	.4500-01	.9130	.1178-02	.1711-02	.2380	1.787	539.9
62	135.00	.85000	874.00	.3760-01	.3080-01	.4500-01	.9130	.1178-02	.1711-02	.2380	1.787	539.9
62	135.00	.86000	875.00	.3760-01	.3080-01	.4500-01	.9130	.1178-02	.1711-02	.2380	1.787	539.9
62	135.00	.87000	876.00	.3760-01	.3080-01	.4500-01	.9130	.1178-02	.1711-02	.2380	1.787	539.9
62	135.00	.88000	877.00	.3760-01	.3080-01	.4500-01	.9130	.1178-02	.1711-02	.2380	1.787	539.9
62	135.00	.89000	878.00	.3760-01	.3080-01	.4500-01	.9130	.1178-02	.1711-02	.2380	1.787	539.9
62	135.00	.90000	879.00	.3760-01	.3080-01	.4500-01	.9130	.1178-02	.1711-02	.2380	1.787	539.9
62	135.00	.91000	880.00	.3760-01	.3080-01	.4500-01	.9130	.1178-02	.1711-02	.2380	1.787	539.9
62	135.00	.92000	881.00	.3760-01	.3080-01	.4500-01	.9130	.1178-02	.1711-02	.2380	1.787	539.9
62	135.00	.93000	882.00	.3760-01	.3080-01	.4500-01	.9130	.1178-02	.1711-02	.2380	1.787	539.9

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(RV7F20)

149;(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
62	135.00	.10000+00	875.00	.1857	.1472	.2055	.9315	.6594-02	.9206-02	1.182	7.692	563.3
62	135.00	.15000	876.00	.9870-01	.7910-01	.1155	.9206	.3543-02	.5174-02	.6630	4.827	555.6
62	135.00	.20000	877.00	.4760-01	.3880-01	.5700-01	.9141	.1736-02	.2552-02	.3460	2.339	543.1
62	135.00	.35000	878.00	.2700-01	.2210-01	.3230-01	.9130	.9882-03	.1448-02	.2010	1.254	539.2
62	135.00	.40000	879.00	.2070-01	.1690-01	.2480-01	.9130	.7589-03	.1112-02	.1540	.9830	539.0
62	135.00	.50000	880.00	.1530-01	.1250-01	.1840-01	.9130	.5604-03	.8245-03	.1130	.7780	540.9
62	135.00	.55000	881.00	.1250-01	.1020-01	.1490-01	.9130	.4559-03	.6696-03	.9200-01	.6170	540.1
62	135.00	.60000	882.00	.2120-01	.1730-01	.2540-01	.9130	.7765-03	.1138-02	.1580	1.066	539.1
62	135.00	.65000	883.00	.2810-01	.2300-01	.3370-01	.9130	.1028-02	.1507-02	.2090	1.433	539.2
62	135.00	.70000	884.00	.3460-01	.2830-01	.4160-01	.9130	.1266-02	.1863-02	.2550	1.821	540.9
62	135.00	.75000	885.00	.3600-01	.2940-01	.4310-01	.9130	.1316-02	.1933-02	.2670	1.687	539.9
258	135.00	.80000	886.00	.9460-01	.6650-01	.1154	.9278	.3682-02	.6449-02	.4220	2.625	566.4
258	135.00	.84000	887.00	.7590-01	.5980-01	.9460-01	.9130	.2678-02	.4234-02	.0000	.0000	244.7
258	135.00	.85000	888.00	.3420-01	.2750-01	.4170-01	.9130	.1230-02	.1870-02	.2320	1.467	552.9
258	135.00	.87000	890.00	.3460-01	.2780-01	.4230-01	.9130	.1246-02	.1894-02	.2359	1.489	553.0
258	135.00	.88000	891.00	.3760-01	.3020-01	.4600-01	.9130	.1351-02	.2061-02	.2530	1.612	554.3
258	135.00	.89000	892.00	.3600-01	.2880-01	.4400-01	.9130	.1292-02	.1973-02	.2420	1.567	554.3
258	135.00	.91000	894.00	.2210-01	.1780-01	.2700-01	.9130	.7954-03	.1211-02	.1500	1.087	553.6
258	135.00	.92600	895.00	.3330-01	.2670-01	.4080-01	.9130	.1195-02	.1828-02	.2230	1.613	555.2
258	135.00	.95000	896.00	.4070-01	.3260-01	.4990-01	.9130	.1460-02	.2238-02	.2710	1.947	556.0
258	142.30	.42000	897.00	.1760-01	.1420-01	.2130-01	.9130	.6375-03	.9529-03	.1240	.7990	546.7
258	142.30	.43500	898.00	.1610-01	.1310-01	.1960-01	.9130	.5866-03	.8747-03	.1150	.7180	545.7
258	142.30	.45000	899.00	.1500-01	.1210-01	.1810-01	.9130	.5435-03	.8112-03	.1060	.6950	546.1
258	142.30	.50000	900.00	.1310-01	.1060-01	.1590-01	.9130	.4762-03	.7131-03	.9200-01	.6160	547.4
258	142.30	.60000	901.00	.2640-01	.2140-01	.3210-01	.9130	.9572-03	.1438-02	.1850	1.224	548.8
258	142.30	.70000	902.00	.3480-01	.2800-01	.4240-01	.9130	.1253-02	.1900-02	.2370	1.614	552.2
258	142.30	.80000	903.00	.3970-01	.3190-01	.4840-01	.9130	.1430-02	.2170-02	.2700	1.713	552.6
258	142.30	.87000	904.00	.3470-01	.2780-01	.4240-01	.9130	.1247-02	.1900-02	.2340	1.476	553.7
258	154.98	.42000	905.00	.1580-01	.1280-01	.1910-01	.9130	.5744-03	.8579-03	.1120	.7230	546.3
258	154.98	.43500	906.00	.1340-01	.1080-01	.1620-01	.9130	.4859-03	.7245-03	.9500-01	.6180	545.7
258	154.98	.45000	907.00	.1200-01	.9700-02	.1450-01	.9130	.4354-03	.6509-03	.8500-01	.5540	546.7
258	154.98	.50000	908.00	.1050-01	.8500-02	.1270-01	.9130	.3792-03	.5683-03	.7400-01	.5260	547.7
258	154.98	.93500	913.00	.4000-01	.3200-01	.4920-01	.9130	.1433-02	.2204-02	.2650	1.913	557.1
258	154.98	.94500	914.00	.3920-01	.3120-01	.4820-01	.9130	.1400-02	.2159-02	.2570	1.840	558.0
258	157.50	.70000-01	918.00	.2520	.1930	.2791	.9342	.8649-02	.1250-01	1.370	9.350	583.2
258	157.50	.80000-01	919.00	.2439	.1883	.2741	.9314	.8436-02	.1223-01	1.371	9.203	579.1
258	157.50	.10000+00	920.00	.1332	.1058	.1517	.9264	.4742-02	.6797-02	.8560	5.677	561.1
258	157.50	.20000	922.00	.2530-01	.2050-01	.3050-01	.9130	.9193-03	.1366-02	.1810	1.209	544.3
258	157.50	.42000	923.00	.1170-01	.9500-02	.1410-01	.9130	.4250-03	.6336-03	.8300-01	.5440	545.6
258	157.50	.43500	924.00	.9600-02	.7800-02	.1160-01	.9130	.3490-03	.5198-03	.6900-01	.4490	545.3
258	157.50	.45000	925.00	.9100-02	.7400-02	.1100-01	.9130	.3305-03	.4922-03	.6500-01	.4290	545.2
258	157.50	.85000	926.00	.3240-01	.2610-01	.3950-01	.9130	.1168-02	.1772-02	.2210	1.427	552.2
258	157.50	.86000	927.00	.3270-01	.2630-01	.3990-01	.9130	.1179-02	.1789-02	.2230	1.443	552.3

(RV7F20)

IH41(AEDC V41A-A4A) 13 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TH DEG. R
258	157.50	.87000	928.00	.3290-01	.2650-01	.4020-01	.9130	.1186-02	.1002-02	.2240	1.454	552.7
258	157.50	.88000	929.00	.3690-01	.2960-01	.4520-01	.9130	.1328-02	.2024-02	.2490	1.626	553.8
258	157.50	.89000	930.00	.3570-01	.2860-01	.4370-01	.9130	.1280-02	.1957-02	.2390	1.566	555.0
258	157.50	.90000	931.00	.3530-01	.2830-01	.4320-01	.9130	.1269-02	.1938-02	.2370	1.593	554.7
258	157.50	.91000	932.00	.2420-01	.1940-01	.2960-01	.9130	.8690-03	.1328-02	.1620	1.183	554.8
258	157.50	.92600	933.00	.3120-01	.2490-01	.3820-01	.9130	.1118-02	.1713-02	.2070	1.506	556.0
258	163.12	.41500	934.00	.1050-01	.8500-02	.1270-01	.9130	.3828-03	.5669-03	.7600-01	.4900	544.3
258	163.12	.42000	935.00	.1000-01	.8100-02	.1210-01	.9130	.3629-03	.5409-03	.7100-01	.4660	545.5
258	163.12	.43000	937.00	.9400-02	.7600-02	.1140-01	.9130	.3418-03	.5097-03	.6700-01	.4400	545.7
258	163.12	.44000	938.00	.9200-02	.7500-02	.1120-01	.9130	.3354-03	.5005-03	.6600-01	.4290	546.0
258	163.12	.44500	939.00	.8400-02	.6800-02	.1010-01	.9130	.3047-03	.4543-03	.6000-01	.3970	545.7
258	163.12	.45000	940.00	.8200-02	.6700-02	.9900-02	.9130	.2981-03	.4449-03	.5800-01	.3870	546.0
258	163.12	.50000	941.00	.1520-01	.1230-01	.1840-01	.9130	.5507-03	.8243-03	.1070	.7260	547.2
258	163.12	.60000	942.00	.2360-01	.1900-01	.2860-01	.9130	.8521-03	.1282-02	.1640	1.056	549.1
258	163.12	.70000	943.00	.2760-01	.2220-01	.3360-01	.9130	.9954-03	.1503-02	.1900	1.303	550.6
258	163.12	.80000	944.00	.2960-01	.2380-01	.3610-01	.9130	.1066-02	.1616-02	.2020	1.314	552.1
258	168.00	.35000	945.00	.5500-02	.4500-02	.6600-02	.9130	.1997-03	.2954-03	.4000-01	.2530	542.5
258	168.00	.36000	946.00	.6000-02	.4900-02	.7200-02	.9130	.2192-03	.3238-03	.4400-01	.2790	541.8
258	168.00	.37000	947.00	.7000-02	.5700-02	.8500-02	.9130	.2563-03	.3799-03	.5100-01	.3250	543.2
258	168.00	.37500	948.00	.7000-02	.5700-02	.8400-02	.9130	.2553-03	.3786-03	.5100-01	.3230	543.5
258	168.00	.38500	950.00	.7000-02	.5700-02	.8500-02	.9130	.2564-03	.3793-03	.5100-01	3300	542.5
258	168.00	.39000	951.00	.8400-02	.6900-02	.1020-01	.9130	.3074-03	.4559-03	.6100-01	.3960	543.5
258	168.00	.39500	952.00	.8200-02	.6700-02	.9900-02	.9130	.2993-03	.4442-03	.5900-01	.3790	543.7
258	168.00	.40000	953.00	.8000-02	.6500-02	.9700-02	.9130	.2915-03	.4333-03	.5700-01	.3740	544.5
258	168.00	.40500	954.00	.8200-02	.6600-02	.9800-02	.9130	.2965-03	.4412-03	.5800-01	.3810	544.9
258	168.00	.41000	955.00	.8600-02	.6900-02	.1030-01	.9130	.3112-03	.4632-03	.6100-01	.4000	544.9
258	168.00	.41500	956.00	.8300-02	.6700-02	.1000-01	.9130	.3001-03	.4467-03	.5900-01	.3860	545.0
258	168.00	.42000	957.00	.8700-02	.7100-02	.1050-01	.9130	.3169-03	.4718-03	.6200-01	.4090	545.1
258	168.00	.42500	958.00	.9300-02	.7500-02	.1120-01	.9130	.3356-03	.5016-03	.6600-01	.4330	545.5
258	168.00	.43000	959.00	.9000-02	.7300-02	.1080-01	.9130	.3251-03	.4848-03	.6400-01	.4170	545.7
258	168.00	.44000	960.00	.1050-01	.8500-02	.1270-01	.9130	.3804-03	.5670-03	.7500-01	.4900	545.5
258	168.00	.44500	961.00	.9200-02	.7500-02	.1110-01	.9130	.3348-03	.4995-03	.6600-01	.4300	545.8
258	168.00	.45500	963.00	.9400-02	.7600-02	.1130-01	.9130	.3397-03	.5067-03	.6700-01	.4390	545.8
258	168.00	.46000	964.00	.1000-01	.8100-02	.1210-01	.9130	.3636-03	.5434-03	.7100-01	.4710	546.6
258	168.00	.47000	965.00	.1140-01	.9200-02	.1370-01	.9130	.4120-03	.6157-03	.8000-01	.5350	546.6
258	168.00	.48000	966.00	.1330-01	.1080-01	.1610-01	.9130	.4828-03	.7223-03	.9400-01	.6310	547.0
258	168.00	.49000	967.00	.1600-01	.1300-01	.1930-01	.9130	.5803-03	.8652-03	.1140	.7650	545.7
258	168.00	.85000	968.00	.3430-01	.2760-01	.4190-01	.9130	.1236-02	.1875-02	.2340	1.513	552.3
258	168.00	.86000	969.00	.3600-01	.2890-01	.4400-01	.9130	.1297-02	.1972-02	.2450	1.586	553.1
258	168.00	.87000	970.00	.3880-01	.3110-01	.4740-01	.9130	.1395-02	.2123-02	.2620	1.706	553.5
258	168.00	.88000	971.00	.3710-01	.2970-01	.4540-01	.9130	.1332-02	.2034-02	.2490	1.623	554.6
258	168.00	.89000	972.00	.4040-01	.3230-01	.4950-01	.9130	.1448-02	.2216-02	.2690	1.781	555.6
258	168.00	.90000	973.00	.3550-01	.2850-01	.4350-01	.9130	.1277-02	.1947-02	.2390	1.622	554.2

(IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F20)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
258	168.00	.91000	974.00	.2670-01	.2140-01	.3270-01	.9130	.9604-03	.1464-02	.1800	1.310	553.9
258	168.00	.92600	975.00	.3230-01	.2580-01	.3960-01	.9130	.1156-02	.1774-02	.2140	1.545	556.3
258	168.00	.95000	976.00	.4420-01	.3530-01	.5430-01	.9130	.1584-02	.2435-02	.2920	2.093	557.0
258	180.00	.20000-01	982.00	.9050-01	.7290-01	.9320-01	.9440	.3264-02	.4177-02	.6200	4.303	551.5
258	180.00	.25000-01	983.00	.1624	.1287	.1694	.9421	.5767-02	.7589-02	1.031	7.064	562.9
258	180.00	.30000-01	984.00	.2404	.1870	.2541	.9406	.8380-02	.1138-01	1.399	9.474	574.6
60	180.00	.40000-01	600.00	.2154	.1713	.2281	.9392	.7669-02	.1021-01	1.392	8.881	561.6
60	180.00	.50000-01	601.00	.2254	.1793	.2429	.9360	.8030-02	.1087-01	1.460	9.347	561.2
60	180.00	.60000-01	602.00	.2166	.1707	.2385	.9330	.7642-02	.1068-01	1.338	8.617	567.9
60	180.00	.70000-01	603.00	.2500	.1931	.2830	.9302	.8645-02	.1267-01	1.411	9.474	579.8
60	180.00	.80000-01	604.00	.1908	.1514	.2159	.9276	.6781-02	.9666-02	1.221	7.882	562.9
60	180.00	.10000+00	605.00	.9990-01	.8050-01	.1147	.9230	.3606-02	.5137-02	.6930	4.960	551.0
60	180.00	.15000	606.00	.3940-01	.3210-01	.4690-01	.9150	.1437-02	.2098-02	.2880	2.097	542.6
60	180.00	.20000	607.00	.1560-01	.1280-01	.1860-01	.9130	.5728-03	.8346-03	.1180	.7740	537.0
60	180.00	.21000	608.00	.1120-01	.9200-02	.1330-01	.9130	.4100-03	.5975-03	.8400-01	.5860	537.0
60	180.00	.22000	609.00	.7800-02	.6400-02	.9300-02	.9130	.2846-03	.4153-03	.5800-01	.4370	537.6
60	180.00	.30000	610.00	.2400-01	.1970-01	.2860-01	.9130	.8803-03	.1280-02	.1820	1.253	536.1
60	180.00	.35000	611.00	.5300-02	.4300-02	.6300-02	.9130	.1945-03	.2823-03	.4000-01	.2710	535.2
60	180.00	.36000	612.00	.5100-02	.4200-02	.6100-02	.9130	.1878-03	.2726-03	.3900-01	.2640	535.2
60	180.00	.37000	613.00	.5600-02	.4600-02	.6700-02	.9130	.2074-03	.3009-03	.4300-01	.2920	535.0
60	180.00	.37500	614.00	.6000-02	.4900-02	.7100-02	.9130	.2193-03	.3185-03	.4500-01	.3070	535.6
60	180.00	.38000	615.00	.6700-02	.5500-02	.8000-02	.9130	.2457-03	.3572-03	.5100-01	.3440	535.9
60	180.00	.38500	616.00	.7400-02	.6100-02	.8900-02	.9130	.2733-03	.3969-03	.5700-01	.3830	535.5
60	180.00	.39000	617.00	.8300-02	.6800-02	.9900-02	.9130	.3052-03	.4433-03	.6300-01	.4270	535.5
60	180.00	.39500	618.00	.9400-02	.7700-02	.1120-01	.9130	.3467-03	.5034-03	.7200-01	.4880	535.3
60	180.00	.40000	619.00	.9900-02	.8100-02	.1180-01	.9130	.3645-03	.5294-03	.7600-01	.5100	535.5
60	180.00	.40500	620.00	.9600-02	.7900-02	.1150-01	.9130	.3532-03	.5133-03	.7300-01	.4950	535.7
60	180.00	.41000	621.00	.1060-01	.8700-02	.1270-01	.9130	.3912-03	.5687-03	.8100-01	.5480	535.9
60	180.00	.41500	622.00	.1160-01	.9500-02	.1390-01	.9130	.4269-03	.6207-03	.8800-01	.5960	535.9
60	180.00	.42500	624.00	.1260-01	.1030-01	.1500-01	.9130	.4617-03	.6727-03	.9500-01	.6410	537.0
60	180.00	.43000	625.00	.1130-01	.9200-02	.1350-01	.9130	.4136-03	.6029-03	.8500-01	.5750	537.1
60	180.00	.44000	626.00	.1400-01	.1150-01	.1680-01	.9130	.5148-03	.7501-03	.1060	.7160	537.0
60	180.00	.44500	627.00	.1300-01	.1060-01	.1550-01	.9130	.4756-03	.6933-03	.9800-01	.6670	537.1
60	180.00	.45000	628.00	.1320-01	.1080-01	.1580-01	.9130	.4837-03	.7056-03	.9900-01	.6780	537.5
60	180.00	.45500	629.00	.1310-01	.1070-01	.1570-01	.9130	.4811-03	.7014-03	.9900-01	.6860	537.2
60	180.00	.46000	630.00	.1490-01	.1220-01	.1780-01	.9130	.5462-03	.7960-03	.1120	.7600	537.1
60	180.00	.47000	631.00	.1590-01	.1300-01	.1900-01	.9130	.5822-03	.8504-03	.1190	.8050	538.1
60	180.00	.49000	633.00	.1950-01	.1600-01	.2330-01	.9130	.7149-03	.1045-02	.1460	1.001	538.6
60	180.00	.50000	634.00	.1860-01	.1520-01	.2220-01	.9130	.6798-03	.9939-03	.1390	.9770	538.5
60	180.00	.55000	635.00	.2040-01	.1670-01	.2440-01	.9130	.7466-03	.1093-02	.1520	1.015	539.2
60	180.00	.60000	636.00	.2280-01	.1860-01	.2720-01	.9130	.8344-03	.1219-02	.1710	1.108	537.5
60	180.00	.65000	637.00	.2630-01	.2160-01	.3150-01	.9130	.9656-03	.1409-02	.1980	1.288	537.6
60	180.00	.70000	638.00	.2910-01	.2380-01	.3490-01	.9130	.1067-02	.1562-02	.2180	1.496	539.0

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
60	180.00	.75000	639.00	.2880-01	.2360-01	.3450-01	.9130	.1056-02	.1543-02	.2170	1.402	538.0
60	180.00	.80000	640.00	.3580-01	.2940-01	.4280-01	.9130	.1315-02	.1915-02	.2710	1.706	536.9
60	180.00	.85000	641.00	.4070-01	.3340-01	.4870-01	.9130	.1494-02	.2179-02	.3070	1.948	537.6
60	180.00	.86000	642.00	.4050-01	.3310-01	.4840-01	.9130	.1484-02	.2168-02	.3040	1.956	538.2
60	180.00	.87000	643.00	.4500-01	.3680-01	.5390-01	.9130	.1649-02	.2412-02	.3370	2.181	538.7
60	180.00	.88000	644.00	.5400-01	.4410-01	.6460-01	.9130	.1976-02	.2893-02	.4030	2.630	539.1
60	180.00	.89000	645.00	.4530-01	.3700-01	.5420-01	.9130	.1659-02	.2427-02	.3390	2.238	538.8
60	180.00	.90000	646.00	.3510-01	.2870-01	.4190-01	.9130	.1286-02	.1877-02	.2640	1.783	537.7
60	180.00	.92600	648.00	.4450-01	.3640-01	.5330-01	.9130	.1628-02	.2387-02	.3310	2.423	539.7
60	180.00	.95000	649.00	.4410-01	.3600-01	.5290-01	.9130	.1611-02	.2370-02	.3250	2.355	541.2
60	191.25	.36000	651.00	.7100-02	.5800-02	.8500-02	.9130	.2617-03	.3804-03	.5400-01	.3670	535.9
60	191.25	.37000	652.00	.6300-02	.5200-02	.7500-02	.9130	.2318-03	.3371-03	.4800-01	.3240	536.1
60	191.25	.37500	653.00	.6100-02	.5000-02	.7300-02	.9130	.2239-03	.3257-03	.4600-01	.3140	536.2
60	191.25	.38000	654.00	.6800-02	.5600-02	.8100-02	.9130	.2488-03	.3618-03	.5200-01	.3490	535.9
60	191.25	.38500	655.00	.6300-02	.5200-02	.7500-02	.9130	.2306-03	.3354-03	.4800-01	.3230	536.1
60	191.25	.39000	656.00	.7400-02	.6000-02	.8800-02	.9130	.2701-03	.3928-03	.5600-01	.3790	536.0
60	191.25	.39500	657.00	.1250-01	.1030-01	.1490-01	.9130	.4603-03	.6684-03	.9600-01	.6480	535.5
60	191.25	.40000	658.00	.1280-01	.1050-01	.1530-01	.9130	.4715-03	.6850-03	.9800-01	.6650	535.6
60	191.25	.40500	659.00	.9500-02	.7800-02	.1130-01	.9130	.3487-03	.5068-03	.7200-01	.4910	535.8
60	191.25	.41000	660.00	.9200-02	.7600-02	.1100-01	.9130	.3394-03	.4939-03	.7000-01	.4750	536.3
60	191.25	.41500	661.00	.9400-02	.7700-02	.1120-01	.9130	.3447-03	.5019-03	.7100-01	.4810	536.6
60	191.25	.42000	662.00	.1020-01	.8400-02	.1220-01	.9130	.3740-03	.5451-03	.7700-01	.5220	537.0
60	191.25	.42500	663.00	.1090-01	.9000-02	.1310-01	.9130	.4018-03	.5852-03	.8300-01	.5630	536.7
60	191.25	.43000	664.00	.1110-01	.9100-02	.1320-01	.9130	.4056-03	.5912-03	.8400-01	.5730	537.1
60	191.25	.44000	665.00	.1170-01	.9600-02	.1400-01	.9130	.4296-03	.6266-03	.8800-01	.6020	537.4
60	191.25	.45000	666.00	.1270-01	.1040-01	.1520-01	.9130	.4662-03	.6803-03	.9600-01	.6520	537.6
60	191.25	.45500	667.00	.1330-01	.1090-01	.1590-01	.9130	.4884-03	.7129-03	.1000+00	.6830	537.8
60	191.25	.46000	668.00	.1410-01	.1150-01	.1690-01	.9130	.5168-03	.7547-03	.1060	.7240	538.0
60	191.25	.47000	669.00	.1630-01	.1340-01	.1950-01	.9130	.5988-03	.8746-03	.1230	.8410	538.0
60	191.25	.48000	670.00	.2520-01	.2060-01	.3010-01	.9130	.9231-03	.1347-02	.1900	1.300	537.5
60	191.25	.49000	671.00	.2200-01	.1800-01	.2640-01	.9130	.8063-03	.1181-02	.1640	1.122	539.2
60	191.25	.50000	672.00	.2070-01	.1690-01	.2480-01	.9130	.7584-03	.1110-02	.1550	1.081	538.9
60	191.25	.60000	673.00	.2500-01	.2050-01	.2990-01	.9130	.9156-03	.1338-02	.1880	1.208	538.1
60	191.25	.70000	674.00	.3500-01	.2860-01	.4190-01	.9130	.1279-02	.1876-02	.2590	1.771	540.1
60	191.25	.85000	676.00	.4660-01	.3820-01	.5570-01	.9130	.1711-02	.2496-02	.3520	2.235	537.3
60	191.25	.86000	677.00	.4620-01	.3780-01	.5520-01	.9130	.1693-02	.2472-02	.3470	2.229	537.9
60	191.25	.87000	678.00	.4930-01	.4030-01	.5900-01	.9130	.1806-02	.2640-02	.3690	2.391	538.5
60	191.25	.88000	679.00	.4960-01	.4060-01	.5940-01	.9130	.1816-02	.2658-02	.3700	2.427	539.0
60	191.25	.89000	680.00	.5200-01	.4250-01	.6220-01	.9130	.1902-02	.2787-02	.3870	2.572	539.5
60	191.25	.90000	681.00	.4490-01	.3670-01	.5370-01	.9130	.1643-02	.2406-02	.3350	2.268	539.1
60	191.25	.91000	682.00	.3210-01	.2630-01	.3830-01	.9130	.1177-02	.1716-02	.2420	1.777	537.1
60	191.25	.92600	683.00	.4330-01	.3540-01	.5180-01	.9130	.1593-02	.2320-02	.3220	2.367	539.5
60	191.25	.95000	684.00	.5110-01	.4170-01	.6140-01	.9130	.1867-02	.2748-02	.3770	2.728	541.3

(RV7F20)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
60	197.00	.33000	685.00	.6300-02	.5200-02	.7500-02	.9130	.2313-03	.3362-03	.4800-01	.3240	535.9
60	197.00	.34000	686.00	.6700-02	.5500-02	.8000-02	.9130	.2468-03	.3587-03	.5100-01	.3450	535.9
60	197.00	.35000	687.00	.6900-02	.5700-02	.8300-02	.9130	.2543-03	.3698-03	.5300-01	.3560	535.9
60	197.00	.36000	688.00	.8000-02	.6600-02	.9500-02	.9130	.2941-03	.4276-03	.6100-01	.4120	535.9
60	197.00	.37000	689.00	.7500-02	.6200-02	.9000-02	.9130	.2764-03	.4019-03	.5700-01	.3870	536.0
60	197.00	.50000	691.00	.2040-01	.1670-01	.2440-01	.9130	.7465-03	.1093-02	.1520	1.027	539.1
60	197.00	.60000	692.00	.2680-01	.2200-01	.3210-01	.9130	.9828-03	.1437-02	.2010	1.302	538.5
60	197.00	.70000	693.00	.4800-01	.3920-01	.5740-01	.9130	.1757-02	.2572-02	.3580	2.439	539.1
60	197.00	.80000	694.00	.4510-01	.3690-01	.5390-01	.9130	.1653-02	.2412-02	.3400	2.146	537.4
60	197.00	.87000	695.00	.5550-01	.4540-01	.6650-01	.9130	.2033-02	.2976-02	.4150	2.653	539.0
60	197.00	.92600	696.00	.4860-01	.3970-01	.5830-01	.9130	.1778-02	.2609-02	.3610	2.648	540.1
258	209.80	.15000-01	697.00	.2561	.1852	.3071	.9283	.1024-01	.1698-01	.0000	.0000	539.9
61	209.80	.30000-01	698.00	.2039	.1632	.2166	.9383	.7307-02	.9697-02	1.359	9.197	557.3
61	209.80	.50000-01	699.00	.2200	.1762	.2393	.9338	.7890-02	.1071-01	1.473	9.315	556.7
61	209.80	.70000-01	700.00	.2589	.2018	.2954	.9282	.9037-02	.1323-01	1.523	10.15	574.8
61	209.80	.10000+00	701.00	.1146	.9250-01	.1327	.9213	.4143-02	.5944-02	.8000	5.091	550.2
61	209.80	.15000	702.00	.3450-01	.2820-01	.4100-01	.9141	.1261-02	.1838-02	.2560	1.839	540.1
61	209.80	.20000	703.00	.1420-01	.1160-01	.1690-01	.9130	.5201-03	.7560-03	.1080	.7220	536.0
61	209.80	.30000	704.00	.5000-02	.4100-02	.5900-02	.9130	.1820-03	.2652-03	.3700-01	.2670	537.3
61	209.80	.35000	705.00	.6800-02	.5600-02	.8100-02	.9130	.2490-03	.3629-03	.5100-01	.3530	537.2
61	209.80	.37500	706.00	.7900-02	.6500-02	.9500-02	.9130	.2907-03	.4234-03	.6000-01	.4140	536.9
61	209.80	.50000	707.00	.2900-01	.2370-01	.3480-01	.9130	.1063-02	.1558-02	.2160	1.485	539.9
61	209.80	.60000	708.00	.4500-01	.3680-01	.5380-01	.9130	.1650-02	.2407-02	.3390	2.173	537.7
61	209.80	.70000	709.00	.4010-01	.3280-01	.4810-01	.9130	.1470-02	.2152-02	.3000	1.918	539.4
61	209.80	.80000	710.00	.4870-01	.3980-01	.5820-01	.9130	.1784-02	.2605-02	.3660	2.293	538.0
61	209.80	.87000	711.00	.5450-01	.4460-01	.6530-01	.9130	.1995-02	.2924-02	.4060	2.578	539.6
61	209.80	.92600	712.00	.4450-01	.3640-01	.5330-01	.9130	.1629-02	.2386-02	.3320	2.422	539.5
61	217.70	.30000-01	714.00	.1982	.1585	.2104	.9384	.7097-02	.9421-02	1.317	8.912	557.7
61	217.70	.50000-01	715.00	.2134	.1709	.2319	.9339	.7650-02	.1038-01	1.428	9.268	556.7
61	217.70	.70000-01	716.00	.2573	.1995	.2944	.9283	.8932-02	.1318-01	1.477	9.922	578.0
61	217.70	.10000+00	717.00	.1052	.8510-01	.1217	.9214	.3810-02	.5447-02	.7410	4.799	548.9
61	217.70	.15000	718.00	.3550-01	.2900-01	.4230-01	.9142	.1299-02	.1892-02	.2640	1.941	539.9
61	217.70	.20000	719.00	.1350-01	.1110-01	.1610-01	.9130	.4962-03	.7198-03	.1030	.7000	535.1
61	217.70	.30000	720.00	.5400-02	.4400-02	.6500-02	.9130	.1990-03	.2901-03	.4100-01	.2950	537.3
61	217.70	.35000	721.00	.7900-02	.6400-02	.9400-02	.9130	.2888-03	.4205-03	.6000-01	.4150	536.8
61	217.70	.37500	722.00	.8800-02	.7200-02	.1050-01	.9130	.3232-03	.4705-03	.6700-01	.4650	536.8
61	217.70	.50000	723.00	.2730-01	.2230-01	.3270-01	.9130	.1001-02	.1464-02	.2040	1.418	538.9
61	217.70	.60000	724.00	.3270-01	.2680-01	.3910-01	.9130	.1199-02	.1749-02	.2460	1.583	537.8
61	217.70	.70000	725.00	.3940-01	.3220-01	.4710-01	.9130	.1444-02	.2111-02	.2950	1.886	538.7
61	217.70	.80000	726.00	.4650-01	.3810-01	.5560-01	.9130	.1707-02	.2489-02	.3510	2.215	537.7
61	217.70	.87000	727.00	.5630-01	.4600-01	.6740-01	.9130	.2062-02	.3018-02	.4210	2.700	539.2
61	217.70	.92600	728.00	.4520-01	.3700-01	.5410-01	.9130	.1657-02	.2423-02	.3390	2.473	538.8

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = .0000 BETA = .0000 GRIT = .0000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
276	3.510	4.770	.0000	.0000	.0000	56.80	.7350	682.0	196.8	6.337	2413.	.3132-03
277	3.510	4.791	.0000	.0000	.0000	56.90	.7360	681.0	196.5	6.348	2411.	.3144-03
278	3.510	4.798	-.1000-01	.0000	.0000	56.60	.7320	678.0	195.6	6.315	2405.	.3141-03
279	3.510	4.819	-.2000-01	.0000	.0000	56.80	.7340	677.0	195.4	6.333	2404.	.3153-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
276	.1584-06	.5531-01	.9306-02
277	.1582-06	.5535-01	.9287-02
278	.1575-06	.5516-01	.9285-02
279	.1573-06	.5524-01	.9265-02

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
277	.00000	.30000-02	730.00	.4088	.2848	.3428	.9721	.1576-01	.1897-01	1.769	12.01	568.3
277	.00000	.10300-01	731.00	.1661	.1228	.1970	.9278	.6795-02	.1090-01	.8860	6.094	550.1
277	.00000	.15000-01	732.00	.1284	.9480-01	.1525	.9278	.5244-02	.8441-02	.6800	4.620	550.8
277	.00000	.20000-01	733.00	.1606	.1164	.1409	.9685	.6443-02	.7797-02	.7960	5.441	556.9
277	.00000	.25000-01	734.00	.3745	.2563	.3254	.9664	.1419-01	.1801-01	1.530	10.27	572.7
277	.00000	.30000-01	735.00	.6013	.3895	.5185	.9647	.2156-01	.2870-01	2.082	13.99	584.0
277	.00000	.40000-01	737.00	.4965	.3412	.4435	.9631	.1888-01	.2455-01	2.054	13.23	571.8
277	.00000	.45000-01	738.00	.5114	.3494	.4627	.9613	.1934-01	.2561-01	2.077	13.58	573.1
277	.00000	.60000-01	739.00	.3995	.2657	.3759	.9562	.1471-01	.2080-01	1.494	9.882	578.9
277	.00000	.70000-01	740.00	.3547	.2394	.3445	.9531	.1325-01	.1907-01	1.387	9.245	575.8
277	.00000	.80000-01	741.00	.3002	.2045	.2999	.9501	.1132-01	.1660-01	1.208	8.661	573.8
277	.00000	.10000+00	742.00	.2614	.1835	.2737	.9447	.1015-01	.1515-01	1.158	7.663	566.5
277	.00000	.12500	743.00	.2067	.1428	.2291	.9391	.7902-02	.1268-01	.8690	6.246	570.5
277	.00000	.15000	744.00	.1678	.1191	.1920	.9346	.6591-02	.1063-01	.7720	5.324	563.4
277	.00000	.17500	745.00	.1155	.8350-01	.1348	.9313	.4620-02	.7462-02	.5680	4.242	557.7
277	.00000	.20000	746.00	.8700-01	.6420-01	.1022	.9291	.3552-02	.5658-02	.4610	3.288	550.9

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F21)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
277	.00000	.21500	747.00	.7570-01	.5600-01	.8940-01	.9283	.3099-02	.4949-02	.4050	2.800	550.0
277	.00000	.23000	748.00	.6190-01	.4570-01	.7350-01	.9279	.2527-02	.4069-02	.3270	2.415	551.0
277	.00000	.24000	749.00	.5230-01	.3860-01	.6200-01	.9278	.2136-02	.3432-02	.2780	2.091	550.5
277	.00000	.25000	750.00	.2970-01	.2200-01	.3510-01	.9278	.1215-02	.1944-02	.1590	1.287	549.5
277	.00000	.30000	751.00	.6040-01	.4460-01	.7160-01	.9278	.2471-02	.3965-02	.3220	2.111	550.1
277	.00000	.40000	753.00	.5870-01	.4370-01	.6930-01	.9278	.2418-02	.3836-02	.3210	2.066	547.6
277	.00000	.50000	754.00	.5440-01	.3990-01	.6480-01	.9278	.2208-02	.3587-02	.2820	1.840	552.8
277	.00000	.60000	755.00	.5810-01	.4270-01	.6900-01	.9278	.2365-02	.3822-02	.3050	1.951	551.6
277	.00000	.70000	756.00	.5080-01	.3690-01	.6100-01	.9278	.2042-02	.3374-02	.2540	1.671	556.1
277	.00000	.80000	757.00	.5120-01	.3700-01	.6170-01	.9278	.2045-02	.3417-02	.2500	1.560	558.1
277	.00000	.90000	758.00	.2570-01	.1930-01	.3130-01	.9278	.1013-02	.1735-02	.1200	.7670	562.5
277	55.000	.22000	759.00	.6350-0	.4700-01	.7510-01	.9281	.2600-02	.4154-02	.3400	2.526	549.8
277	55.000	.25000	760.00	.3240-01	.2400-01	.3840-01	.9278	.1329-02	.2126-02	.1740	1.361	549.6
277	55.000	.27000	761.00	.3560-01	.2610-01	.4240-01	.9278	.1447-02	.2348-02	.1850	1.374	552.6
277	55.000	.30000	762.00	.6030-01	.4470-01	.7140-01	.9278	.2473-02	.3950-02	.3250	1.951	549.2
277	55.000	.32000	763.00	.6440-01	.4810-01	.7580-01	.9278	.2663-02	.4196-02	.3580	2.119	546.1
277	55.000	.34000	764.00	.6310-01	.4710-01	.7430-01	.9278	.2605-02	.4110-02	.3500	2.075	546.3
277	55.000	.36000	765.00	.6360-01	.4750-01	.7490-01	.9278	.2629-02	.4146-02	.3530	2.125	546.2
277	55.000	.38000	766.00	.6050-01	.4520-01	.7120-01	.9278	.2501-02	.3941-02	.3360	2.045	546.1
277	55.000	.40000	767.00	.5720-01	.4270-01	.6730-01	.9278	.2362-02	.3726-02	.3170	1.982	546.3
277	67.500	.23000	768.00	.7170-01	.5300-01	.8490-01	.9279	.2932-02	.4699-02	.3830	2.844	550.0
277	67.500	.25000	769.00	.3270-01	.2420-01	.3880-01	.9278	.1340-02	.2146-02	.1750	1.363	549.6
277	67.500	.27000	770.00	.4670-01	.3440-01	.5570-01	.9278	.1901-02	.3081-02	.2440	1.775	552.2
277	67.500	.29000	771.00	.4350-01	.3220-01	.5150-01	.9278	.1782-02	.2851-02	.2330	1.444	549.6
277	67.500	.30000	772.00	.6310-01	.4670-01	.7470-01	.9278	.2584-02	.4134-02	.3390	2.067	549.5
277	67.500	.31000	773.00	.6220-01	.4610-01	.7360-01	.9278	.2552-02	.4075-02	.3350	2.031	549.1
277	67.500	.32000	774.00	.6630-01	.4930-01	.7820-01	.9278	.2728-02	.4330-02	.3620	2.178	547.7
277	67.500	.32500	775.00	.6560-01	.4890-01	.7740-01	.9278	.2706-02	.4281-02	.3610	2.178	547.0
277	67.500	.33000	776.00	.5670-01	.4220-01	.6680-01	.9278	.2334-02	.3699-02	.3110	1.879	547.3
277	67.500	.33500	777.00	.5730-01	.4270-01	.6750-01	.9278	.2365-02	.3735-02	.3170	1.916	546.6
277	67.500	.34000	778.00	.6040-01	.4510-01	.7110-01	.9278	.2495-02	.3937-02	.3350	2.023	546.4
277	67.500	.34500	779.00	.6110-01	.4560-01	.7200-01	.9278	.2523-02	.3986-02	.3380	2.048	546.7
277	67.500	.35000	780.00	.5830-01	.4360-01	.6870-01	.9278	.2411-02	.3800-02	.3240	1.970	546.2
277	67.500	.36000	782.00	.5920-01	.4410-01	.6980-01	.9278	.2443-02	.3861-02	.3270	1.992	546.8
277	67.500	.36500	783.00	.5930-01	.4430-01	.6990-01	.9278	.2451-02	.3868-02	.3290	1.998	546.4
277	67.500	.37000	784.00	.5520-01	.4120-01	.6490-01	.9278	.2281-02	.3593-02	.3070	1.878	545.9
277	67.500	.37500	785.00	.5660-01	.4220-01	.6670-01	.9278	.2337-02	.3689-02	.3130	1.931	546.5
277	67.500	.38000	786.00	.5850-01	.4370-01	.6890-01	.9278	.2420-02	.3814-02	.3250	2.011	546.1
278	67.500	.39000	787.00	.6160-01	.4590-01	.7270-01	.9278	.2542-02	.4022-02	.3390	2.103	547.0
278	67.500	.40000	788.00	.5560-01	.4140-01	.6570-01	.9278	.2292-02	.3634-02	.3050	1.904	547.5
278	67.500	.50000	789.00	.5650-01	.4150-01	.6740-01	.9278	.2295-02	.3731-02	.2930	1.873	552.9
278	67.500	.60000	790.00	.6480-01	.4800-01	.7680-01	.9278	.2655-02	.4251-02	.3470	2.276	549.7
278	67.500	.70000	791.00	.5860-01	.4260-01	.7030-01	.9278	.2359-02	.3893-02	.2940	2.069	555.8

ORIGINAL PAGE IS
OF POOR QUALITY

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F21)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
278	67.500	.80000	792.00	.6120-01	.4500-01	.7290-01	.9278	.2490-02	.4035-02	.3200	2.004	552.2
278	67.500	.90000	793.00	.3980-01	.2870-01	.4800-01	.9278	.1591-02	.2657-02	.1950	1.249	558.1
278	78.000	.27000	794.00	.4700-01	.3450-01	.5600-01	.9278	.1910-02	.3099-02	.2450	1.739	552.5
278	78.000	.29000	795.00	.4470-01	.3310-01	.5290-01	.9278	.1832-02	.2930-02	.2400	1.479	549.4
279	78.000	.30000	796.00	.6000-01	.4330-01	.7230-01	.9278	.2394-02	.3993-02	.2920	1.765	554.8
279	78.000	.31000	797.00	.6020-01	.4360-01	.7250-01	.9278	.2406-02	.4006-02	.2940	1.778	554.4
279	78.000	.32000	798.00	.6020-01	.4360-01	.7250-01	.9278	.2408-02	.4007-02	.2950	1.772	554.3
279	78.000	.32500	799.00	.5990-01	.4350-01	.7210-01	.9278	.2401-02	.3981-02	.2960	1.782	553.7
279	78.000	.33000	800.00	.6100-01	.4420-01	.7340-01	.9278	.2440-02	.4055-02	.2990	1.804	554.1
279	78.000	.33500	801.00	.6120-01	.4440-01	.7360-01	.9278	.2451-02	.4063-02	.3020	1.820	553.6
279	78.000	.34000	802.00	.5970-01	.4330-01	.7180-01	.9278	.2390-02	.3968-02	.2940	1.769	554.0
279	78.000	.34500	803.00	.5830-01	.4230-01	.7010-01	.9278	.2338-02	.3873-02	.2880	1.742	553.5
279	78.000	.35000	804.00	.5920-01	.4290-01	.7120-01	.9278	.2372-02	.3931-02	.2920	1.765	553.6
279	78.000	.35500	805.00	.5730-01	.4150-01	.6880-01	.9278	.2294-02	.3801-02	.2830	1.708	553.6
279	78.000	.36000	806.00	.5460-01	.3960-01	.6550-01	.9278	.2189-02	.3620-02	.2710	1.640	553.2
279	78.000	.36500	807.00	.5380-01	.3900-01	.6480-01	.9278	.2152-02	.3579-02	.2640	1.601	554.3
279	78.000	.37000	808.00	.5630-01	.4080-01	.6770-01	.9278	.2256-02	.3738-02	.2780	1.694	553.6
279	78.000	.37500	809.00	.5450-01	.3940-01	.6560-01	.9278	.2178-02	.3623-02	.2670	1.624	554.3
279	78.000	.38000	810.00	.5490-01	.3980-01	.6600-01	.9278	.2200-02	.3648-02	.2710	1.659	553.7
279	78.000	.39000	811.00	.5680-01	.4110-01	.6850-01	.9278	.2271-02	.3783-02	.2780	1.705	554.6
279	78.000	.40000	812.00	.4860-01	.3560-01	.5800-01	.9278	.1964-02	.3201-02	.2480	1.528	550.4
278	90.000	.40000-01	985.00	.4859	.3336	.4339	.9631	.1840-01	.2393-01	1.988	12.79	569.5
278	90.000	.50000-01	986.00	.4903	.3367	.4508	.9596	.1857-01	.2487-01	2.008	12.84	569.4
278	90.000	.60000-01	987.00	.3792	.2515	.3566	.9562	.1387-01	.1967-01	1.395	9.048	576.9
278	90.000	.80000-01	989.00	.3436	.2338	.3433	.9501	.1290-01	.1894-01	1.367	9.563	571.5
278	90.000	.15000	991.00	.1481	.1036	.1706	.9346	.5718-02	.9409-02	.6460	4.699	564.6
279	90.000	.24000	814.00	.5810-01	.4170-01	.7030-01	.9278	.2306-02	.3882-02	.2780	2.234	556.5
279	90.000	.27000	816.00	.4740-01	.3420-01	.5720-01	.9278	.1891-02	.3160-02	.2300	1.630	555.1
279	90.000	.29000	817.00	.5160-01	.3740-01	.6220-01	.9278	.2064-02	.3434-02	.2530	1.565	554.3
279	90.000	.30000	818.00	.7810-01	.5640-01	.9410-01	.9278	.3113-02	.5200-02	.3790	2.308	555.0
279	90.000	.31000	819.00	.6510-01	.4710-01	.7840-01	.9278	.2600-02	.4333-02	.3180	1.917	554.7
279	90.000	.32000	820.00	.6440-01	.4670-01	.7740-01	.9278	.2579-02	.4277-02	.3170	1.912	553.8
279	90.000	.32500	821.00	.6390-01	.4630-01	.7690-01	.9278	.2555-02	.4250-02	.3130	1.880	554.3
279	90.000	.33000	822.00	.5980-01	.4350-01	.7170-01	.9278	.2401-02	.3961-02	.2980	1.796	552.7
279	90.000	.34000	824.00	.6220-01	.4510-01	.7460-01	.9278	.2494-02	.4122-02	.3080	1.854	553.1
279	90.000	.34500	825.00	.5980-01	.4350-01	.7170-01	.9278	.2403-02	.3953-02	.2990	1.802	552.5
279	90.000	.35000	826.00	.6070-01	.4410-01	.7300-01	.9278	.2435-02	.4032-02	.3010	1.811	553.4
279	90.000	.36000	828.00	.6100-01	.4410-01	.7340-01	.9279	.2436-02	.4054-02	.2980	1.792	554.4
279	90.000	.36500	829.00	.5910-01	.4270-01	.7110-01	.9278	.2360-02	.3928-02	.2890	1.741	554.4
279	90.000	.37000	830.00	.5830-01	.4230-01	.7000-01	.9278	.2339-02	.3866-02	.2890	1.749	553.1
279	90.000	.37500	831.00	.5880-01	.4260-01	.7070-01	.9278	.2352-02	.3905-02	.2890	1.755	554.0
279	90.000	.38000	832.00	.5740-01	.4160-01	.6900-01	.9278	.2300-02	.3813-02	.2830	1.721	553.7
279	90.000	.39000	833.00	.5640-01	.4080-01	.6790-01	.9278	.2251-02	.3750-02	.2750	1.691	554.5

DATE 03 JUN 78 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F21)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TH DEG. R
279	90.000	.40000	834.00	.5690-01	.4120-01	.6860-01	.9278	.2275-02	.3709-02	.2780	1.714	554.4
279	90.000	.50000	835.00	.5700-01	.4080-01	.6920-01	.9278	.2253-02	.3824-02	.2680	1.684	557.9
279	90.000	.60000	836.00	.5730-01	.4130-01	.6920-01	.9278	.2280-02	.3825-02	.2760	1.830	555.8
279	90.000	.70000	837.00	.5620-01	.4010-01	.6840-01	.9278	.2213-02	.3776-02	.2610	1.829	558.7
279	90.000	.80000	838.00	.6040-01	.4340-01	.7310-01	.9278	.2400-02	.4038-02	.2890	1.788	556.4
279	90.000	.90000	839.00	.4660-01	.3340-01	.5660-01	.9278	.1846-02	.3126-02	.2200	1.400	557.5
279	112.50	.23000	840.00	.5870-01	.4230-01	.7090-01	.9279	.2337-02	.3916-02	.2830	2.270	555.8
279	112.50	.25000	841.00	.3410-01	.2470-01	.4100-01	.9278	.1364-02	.2265-02	.1680	1.295	553.9
279	112.50	.30000	843.00	.6270-01	.4520-01	.7560-01	.9278	.2499-02	.4174-02	.3040	1.603	555.0
279	112.50	.33000	844.00	.6260-01	.4500-01	.7510-01	.9278	.2488-02	.4146-02	.3040	1.826	554.6
279	112.50	.35000	845.00	.6010-01	.4350-01	.7230-01	.9278	.2404-02	.3994-02	.2950	1.802	554.1
279	112.50	.37000	846.00	.5920-01	.4280-01	.7140-01	.9278	.2363-02	.3942-02	.2880	1.769	554.8
279	112.50	.40000	847.00	.5670-01	.4110-01	.6820-01	.9278	.2273-02	.3769-02	.2800	1.737	553.7
279	112.50	.45000	848.00	.5780-01	.4190-01	.6960-01	.9278	.2312-02	.3847-02	.2830	1.773	554.3
279	112.50	.50000	849.00	.5730-01	.4110-01	.6940-01	.9278	.2272-02	.3835-02	.2720	1.743	556.9
279	112.50	.55000	850.00	.4370-01	.3140-01	.5280-01	.9278	.1737-02	.2916-02	.2100	1.396	556.0
279	112.50	.60000	851.00	.5730-01	.4130-01	.6920-01	.9278	.2279-02	.3822-02	.2760	1.841	555.8
279	112.50	.65000	852.00	.6180-01	.4440-01	.7490-01	.9278	.2455-02	.4135-02	.2950	1.998	556.6
279	112.50	.70000	853.00	.5840-01	.4180-01	.7090-01	.9278	.2308-02	.3916-02	.2750	1.917	557.8
279	112.50	.75000	854.00	.4840-01	.3460-01	.5870-01	.9278	.1913-02	.3244-02	.2280	1.469	557.8
279	112.50	.80000	855.00	.5540-01	.3990-01	.6700-01	.9278	.2203-02	.3699-02	.2660	1.724	556.0
279	112.50	.90000	856.00	.4260-01	.3050-01	.5160-01	.9278	.1694-02	.2851-02	.2010	1.297	557.4
279	125.40	.84000	857.00	.5600-01	.4030-01	.6760-01	.9278	.2228-02	.3733-02	.2700	1.662	555.6
279	125.40	.85000	858.00	.5650-01	.4060-01	.6820-01	.9278	.2245-02	.3770-02	.2710	1.678	556.0
279	125.40	.86000	859.00	.5720-01	.4120-01	.6920-01	.9278	.2275-02	.3824-02	.2750	1.712	556.2
279	125.40	.87000	860.00	.5500-01	.3960-01	.6640-01	.9278	.2186-02	.3670-02	.2640	1.653	556.0
279	125.40	.88000	861.00	.6230-01	.4460-01	.7550-01	.9278	.2465-02	.4173-02	.2940	1.840	557.4
279	125.40	.89000	862.00	.6100-01	.4370-01	.7410-01	.9278	.2414-02	.4093-02	.2880	1.807	557.7
279	125.40	.90000	863.00	.5110-01	.3650-01	.6210-01	.9278	.2017-02	.3429-02	.2390	1.513	558.2
279	125.40	.91000	864.00	.3300-01	.2380-01	.3990-01	.9278	.1312-02	.2203-02	.1590	1.148	556.0
279	125.40	.92600	865.00	.3870-01	.2740-01	.4730-01	.9278	.1515-02	.2612-02	.1760	1.270	560.4
279	129.30	.80000	866.00	.6030-01	.4340-01	.7290-01	.9278	.2396-02	.4027-02	.2890	1.808	556.2
279	129.30	.81000	867.00	.5500-01	.3960-01	.6640-01	.9278	.2189-02	.3668-02	.2650	1.650	555.7
279	129.30	.82000	868.00	.5310-01	.3830-01	.6410-01	.9278	.2117-02	.3542-02	.2570	1.601	555.3
279	129.30	.83000	869.00	.5600-01	.4030-01	.6770-01	.9278	.2226-02	.3740-02	.2690	1.676	556.1
279	135.00	.40000-01	870.00	.4923	.3225	.4324	.9632	.1781-01	.2383-01	1.747	11.06	578.7
279	135.00	.50000-01	871.00	.5323	.3491	.4835	.9596	.1928-01	.2671-01	1.896	11.93	578.5
279	135.00	.70000-01	873.00	.3679	.2326	.3551	.9531	.1285-01	.1962-01	1.182	7.891	584.8
279	135.00	.10000+00	875.00	.2896	.1939	.3055	.9447	.1071-01	.1687-01	1.098	7.104	574.4
279	135.00	.15000	876.00	.1683	.1140	.1972	.9346	.6298-02	.1089-01	.6610	4.775	571.9
279	135.00	.20000	877.00	.9510-01	.6750-01	.1147	.9291	.3729-02	.6336-02	.4350	2.912	560.2
279	135.00	.35000	878.00	.6330-01	.4580-01	.7630-01	.9278	.2528-02	.4213-02	.3090	1.912	554.7
279	135.00	.40000	879.00	.6020-01	.4340-01	.7260-01	.9278	.2399-02	.4011-02	.2920	1.841	555.2

(IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RVTF21)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
279	135.00	.50000	880.00	.5160-01	.3710-01	.6250-01	.9278	.2047-02	.3453-02	.2460	1.678	558.8
279	135.00	.55000	881.00	.4310-01	.3100-01	.5200-01	.9278	.1713-02	.2875-02	.2070	1.373	555.9
279	135.00	.60000	882.00	.5750-01	.4130-01	.6970-01	.9278	.2284-02	.3847-02	.2750	1.837	556.6
279	135.00	.65000	883.00	.5590-01	.4020-01	.6760-01	.9278	.2221-02	.3732-02	.2680	1.822	556.1
279	135.00	.70000	884.00	.5680-01	.4060-01	.6890-01	.9278	.2243-02	.3808-02	.2670	1.884	558.0
279	135.00	.75000	885.00	.5070-01	.3630-01	.6150-01	.9278	.2007-02	.3397-02	.2400	1.502	557.4
279	135.00	.80000	886.00	.5640-01	.4070-01	.6800-01	.9278	.2248-02	.3758-02	.2730	1.711	555.2
279	135.00	.84000	887.00	.7590-01	.5980-01	.9460-01	.9130	.2678-02	.4234-02	.0000	.0000	244.7
278	135.00	.85000	888.00	.5390-01	.3970-01	.6420-01	.9278	.2188-02	.3540-02	.2800	1.773	549.5
278	135.00	.87000	890.00	.5930-01	.4340-01	.7080-01	.9270	.2394-02	.3903-02	.3030	1.921	551.0
278	135.00	.88000	891.00	.5700-01	.4150-01	.6840-01	.9278	.2291-02	.3772-02	.2860	1.820	552.9
278	135.00	.89000	892.00	.5550-01	.4030-01	.6680-01	.9278	.2223-02	.3683-02	.2740	1.778	554.1
278	135.00	.91000	894.00	.2510-01	.1820-01	.3020-01	.9278	.1002-02	.1666-02	.1230	.8940	554.7
278	135.00	.92600	895.00	.3740-01	.2690-01	.4530-01	.9278	.1487-02	.2498-02	.1800	1.299	556.7
278	135.00	.95000	896.00	.6230-01	.4490-01	.7530-01	.9278	.2478-02	.4151-02	.3010	2.162	556.2
278	142.30	.42000	897.00	.6060-01	.4490-01	.7180-01	.9278	.2479-02	.3959-02	.3240	2.085	546.7
278	142.30	.43500	898.00	.6210-01	.4620-01	.7340-01	.9278	.2547-02	.4047-02	.3360	2.103	545.5
278	142.30	.45000	899.00	.6130-01	.4550-01	.7250-01	.9278	.2510-02	.4002-02	.3290	2.155	546.3
278	142.30	.50000	900.00	.5760-01	.4230-01	.6870-01	.9278	.2333-02	.3791-02	.2970	1.974	550.3
278	142.30	.60000	901.00	.5970-01	.4390-01	.7100-01	.9278	.2421-02	.3919-02	.3100	2.055	549.5
278	142.30	.70000	902.00	.5840-01	.4270-01	.6980-01	.9278	.2358-02	.3852-02	.2970	2.025	551.4
278	142.30	.80000	903.00	.6110-01	.4490-01	.7270-01	.9278	.2479-02	.4011-02	.3180	2.015	549.5
278	142.30	.87000	904.00	.6130-01	.4470-01	.7350-01	.9270	.2467-02	.4053-02	.3080	1.943	552.5
278	154.98	.42000	905.00	.6360-01	.4730-01	.7520-01	.9278	.2607-02	.4150-02	.3430	2.212	546.0
278	154.98	.43500	906.00	.6730-01	.5000-01	.7960-01	.9278	.2760-02	.4390-02	.3640	2.359	545.8
278	154.98	.45000	907.00	.6210-01	.4600-01	.7350-01	.9278	.2536-02	.4054-02	.3310	2.162	546.9
278	154.98	.50000	908.00	.5320-01	.3890-01	.6350-01	.9278	.2145-02	.3503-02	.2710	1.933	551.3
278	154.98	.93500	913.00	.3740-01	.2680-01	.4540-01	.9278	.1480-02	.2506-02	.1770	1.280	559.8
278	154.98	.94500	914.00	.4690-01	.3360-01	.5700-01	.9278	.1852-02	.3142-02	.2210	1.579	558.4
278	157.50	.70000-01	918.00	.3632	.2442	.3526	.9531	.1347-01	.1945-01	1.392	9.549	574.1
278	157.50	.80000-01	919.00	.3376	.2295	.3373	.9501	.1266-01	.1861-01	1.339	9.024	571.8
278	157.50	.10000+00	920.00	.2701	.1886	.2830	.9447	.1041-01	.1561-01	1.168	7.734	565.2
278	157.50	.20000	922.00	.9650-01	.7090-01	.1138	.9291	.3909-02	.6277-02	.4980	3.310	550.2
278	157.50	.42000	923.00	.5850-01	.4340-01	.6900-01	.9278	.2397-02	.3809-02	.3160	2.065	545.5
278	157.50	.43500	924.00	.5680-01	.4230-01	.6700-01	.9278	.2332-02	.3697-02	.3090	2.023	545.1
278	157.50	.45000	925.00	.5460-01	.4060-01	.6450-01	.9278	.2240-02	.3557-02	.2960	1.956	545.4
278	157.50	.85000	926.00	.5360-01	.3930-01	.6390-01	.9278	.2167-02	.3524-02	.2750	1.777	550.5
278	157.50	.86000	927.00	.4880-01	.3570-01	.5820-01	.9278	.1971-02	.3209-02	.2500	1.617	550.8
278	157.50	.87000	928.00	.5330-01	.3910-01	.6350-01	.9278	.2157-02	.3504-02	.2740	1.781	550.3
278	157.50	.88000	929.00	.5070-01	.3690-01	.6070-01	.9278	.2036-02	.3350-02	.2540	1.656	552.8
278	157.50	.89000	930.00	.4830-01	.3490-01	.5820-01	.9278	.1926-02	.3211-02	.2350	1.543	555.3
278	157.50	.90000	931.00	.4070-01	.2950-01	.4910-01	.9278	.1625-02	.2709-02	.1990	1.333	555.3
278	157.50	.91000	932.00	.2450-01	.1770-01	.2960-01	.9278	.9749-03	.1633-02	.1180	.8620	556.2

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
278	157.50	.92600	933.00	.3410-01	.2480-01	.4170-01	.9278	.1366-02	.2299-02	.1650	1.194	557.0
278	163.12	.41500	934.00	.6430-01	.4800-01	.7570-01	.9278	.2650-02	.4176-02	.3550	2.304	543.7
278	163.12	.42000	935.00	.6220-01	.4640-01	.7340-01	.9278	.2558-02	.4049-02	.3400	2.226	544.7
278	163.12	.43000	937.00	.5890-01	.4380-01	.6950-01	.9278	.2415-02	.3834-02	.3190	2.097	545.3
278	163.12	.44000	938.00	.5850-01	.4350-01	.6910-01	.9278	.2398-02	.3813-02	.3160	2.069	545.7
278	163.12	.44500	939.00	.5710-01	.4240-01	.6760-01	.9278	.2338-02	.3729-02	.3070	2.037	546.4
278	163.12	.45000	940.00	.5810-01	.4320-01	.6870-01	.9278	.2381-02	.3790-02	.3130	2.082	545.9
278	163.12	.50000	941.00	.5620-01	.4120-01	.6700-01	.9278	.2275-02	.3696-02	.2890	1.960	550.3
278	163.12	.60000	942.00	.5810-01	.4270-01	.6920-01	.9278	.2358-02	.3815-02	.3020	1.944	549.5
278	163.12	.70000	943.00	.5160-01	.3760-01	.6180-01	.9278	.2077-02	.3408-02	.2600	1.781	552.3
278	163.12	.80000	944.00	.5440-01	.3980-01	.6500-01	.9278	.2195-02	.3588-02	.2770	1.801	551.5
278	168.00	.35000	945.00	.6250-01	.4670-01	.7360-01	.9278	.2575-02	.4060-02	.3450	2.187	543.7
278	168.00	.36000	946.00	.5880-01	.4400-01	.6920-01	.9278	.2430-02	.3815-02	.3270	2.085	542.8
278	168.00	.37500	948.00	.5840-01	.4360-01	.6890-01	.9278	.2405-02	.3799-02	.3210	2.046	544.2
278	168.00	.38500	950.00	.5070-01	.3800-01	.5950-01	.9278	.2094-02	.3285-02	.2830	1.827	542.5
278	168.00	.39000	951.00	.5960-01	.4450-01	.7020-01	.9278	.2457-02	.3871-02	.3290	2.136	543.7
278	168.00	.39500	952.00	.5920-01	.4420-01	.6970-01	.9278	.2437-02	.3843-02	.3260	2.085	543.9
278	168.00	.40000	953.00	.5710-01	.4260-01	.6730-01	.9278	.2348-02	.3712-02	.3120	2.035	544.4
278	168.00	.40500	954.00	.5730-01	.4270-01	.6750-01	.9278	.2353-02	.3726-02	.3120	2.040	544.8
278	168.00	.41000	955.00	.5810-01	.4330-01	.6860-01	.9278	.2387-02	.3782-02	.3170	2.067	544.9
278	168.00	.41500	956.00	.5890-01	.4390-01	.6950-01	.9278	.2420-02	.3835-02	.3210	2.102	544.9
278	168.00	.42000	957.00	.5850-01	.4360-01	.6890-01	.9278	.2404-02	.3803-02	.3200	2.101	544.5
278	168.00	.42500	958.00	.5690-01	.4240-01	.6710-01	.9278	.2338-02	.3703-02	.3100	2.039	544.8
278	168.00	.43000	959.00	.5920-01	.4410-01	.6980-01	.9278	.2431-02	.3851-02	.3220	2.111	544.9
278	168.00	.44000	960.00	.6130-01	.4570-01	.7220-01	.9278	.2519-02	.3985-02	.3350	2.200	544.6
278	168.00	.44500	961.00	.5820-01	.4320-01	.6880-01	.9278	.2385-02	.3793-02	.3140	2.063	545.8
278	168.00	.45500	963.00	.5770-01	.4290-01	.6820-01	.9278	.2365-02	.3763-02	.3110	2.057	545.8
278	168.00	.46000	964.00	.5990-01	.4440-01	.7080-01	.9278	.2449-02	.3907-02	.3210	2.131	546.5
278	168.00	.47000	965.00	.5700-01	.4220-01	.6740-01	.9278	.2328-02	.3720-02	.3040	2.027	546.8
278	168.00	.48000	966.00	.5630-01	.4160-01	.6690-01	.9278	.2294-02	.3689-02	.2970	1.994	548.1
278	168.00	.49000	967.00	.5470-01	.4060-01	.6470-01	.9278	.2238-02	.3567-02	.2940	1.977	546.2
278	168.00	.85000	968.00	.5290-01	.3870-01	.6310-01	.9278	.2135-02	.3484-02	.2700	1.746	551.2
278	168.00	.86000	969.00	.5170-01	.3780-01	.6190-01	.9278	.2083-02	.3414-02	.2610	1.694	552.1
278	168.00	.87000	970.00	.5200-01	.3790-01	.6230-01	.9278	.2089-02	.3437-02	.2600	1.694	552.8
278	168.00	.88000	971.00	.5170-01	.3740-01	.6220-01	.9278	.2065-02	.3432-02	.2540	1.652	554.7
278	168.00	.89000	972.00	.5230-01	.3760-01	.6320-01	.9278	.2075-02	.3485-02	.2510	1.659	556.6
278	168.00	.90000	973.00	.4080-01	.2950-01	.4930-01	.9278	.1525-02	.2718-02	.1980	1.339	555.9
278	168.00	.91000	974.00	.2340-01	.1690-01	.2830-01	.9278	.9328-03	.1560-02	.1130	.8240	555.9
278	168.00	.92600	975.00	.3100-01	.2220-01	.3770-01	.9278	.1224-02	.2080-02	.1450	1.048	558.7
278	168.00	.95000	976.00	.5640-01	.4030-01	.6840-01	.9278	.2225-02	.3776-02	.2650	1.897	558.4
278	180.00	.20000-01	982.00	.1768	.1305	.1563	.9685	.7199-02	.8623-02	.9310	6.471	548.1
278	180.00	.25000-01	983.00	.4137	.2883	.3623	.9664	.1593-01	.1999-01	1.789	12.25	565.3
278	180.00	.30000-01	984.00	.6525	.4209	.5617	.9647	.2322-01	.3098-01	2.216	14.95	582.1

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F21)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DT/DT DEG. R /SEC	TW DEG. R
276	180.00	.40000-01	600.00	.5158	3430	.4555	.9631	.1897-01	.2519-01	1.930	12.20	580.0
276	180.00	.50000-01	601.00	.5114	.3385	.4657	.9596	.1872-01	.2576-01	1.888	11.97	580.9
276	180.00	.60000-01	602.00	.4199	.2681	.3922	.9562	.1483-01	.2169-01	1.398	9.122	587.5
276	180.00	.70000-01	603.00	.3819	.2472	.3695	.9531	.1367-01	.2044-01	1.321	8.845	585.1
276	180.00	.80000-01	604.00	.3700	.2390	.3696	.9501	1322-01	.2044-01	1.273	8.123	585.4
276	180.00	.10000+00	605.00	.2615	.1764	.2755	.9447	.9756-02	.1524-01	1.022	7.224	577.0
276	180.00	.15000	606.00	.1583	.1082	.1848	.9346	.5982-02	.1022-01	.6430	4.614	574.2
276	180.00	.20000	607.00	.9490-01	.6900-01	.1137	.9291	.3763-02	.6287-02	.4530	2.935	561.3
276	180.00	.21000	608.00	.7590-01	.5480-01	.9090-01	.9285	.3030-02	.5030-02	.3720	2.551	559.1
276	180.00	.22000	609.00	.6490-01	.4700-01	.7790-01	.9281	.2599-02	.4306-02	.3210	2.377	558.1
276	180.00	.30000	610.00	.5560-01	.4050-01	.6650-01	.9278	.2242-02	.3679-02	.2830	1.926	555.7
276	180.00	.35000	611.00	.5170-01	.3770-01	.6180-01	.9278	.2087-02	.3419-02	.2640	1.749	555.3
276	180.00	.36000	612.00	.5180-01	.3780-01	.6190-01	.9278	.2089-02	.3425-02	.2640	1.765	555.5
276	180.00	.37500	614.00	.5520-01	.4020-01	.6620-01	.9278	.2224-02	.3661-02	.2790	1.866	556.3
276	180.00	.38000	615.00	.5300-01	.3860-01	.6360-01	.9278	.2136-02	.3517-02	.2680	1.791	556.4
276	180.00	.38500	616.00	.5590-01	.4070-01	.6700-01	.9278	.2254-02	.3708-02	.2830	1.892	556.2
276	180.00	.39000	617.00	.5330-01	.3890-01	.6370-01	.9278	.2154-02	.3523-02	.2730	1.820	555.1
276	180.00	.39500	618.00	.5540-01	.4040-01	.6630-01	.9278	.2235-02	.3665-02	.2820	1.891	555.6
276	180.00	.40000	619.00	.5810-01	.4240-01	.6950-01	.9278	.2345-02	.3843-02	.2960	1.975	555.5
276	180.00	.40500	620.00	.6040-01	.4410-01	.7220-01	.9278	.2438-02	.3994-02	.3080	2.061	555.4
276	180.00	.41000	621.00	.6350-01	.4630-01	.7610-01	.9278	.2562-02	.4209-02	.3220	2.156	555.9
276	180.00	.41500	622.00	.6380-01	.4660-01	.7640-01	.9278	.2575-02	.4224-02	.3250	2.166	555.7
276	180.00	.42500	624.00	.5630-01	.4100-01	.6750-01	.9278	.2265-02	.3733-02	.2840	1.892	556.5
276	180.00	.43000	625.00	.5300-01	.3860-01	.6340-01	.9278	.2135-02	.3528-02	.2690	1.797	556.0
276	180.00	.44000	626.00	.5240-01	.3820-01	.6260-01	.9278	.2114-02	.3464-02	.2670	1.787	555.4
276	180.00	.44500	627.00	.5120-01	.3730-01	.6130-01	.9278	.2064-02	.3391-02	.2600	1.754	555.9
276	180.00	.45000	628.00	.5200-01	.3790-01	.6230-01	.9278	.2094-02	.3447-02	.2630	1.772	556.3
276	180.00	.45500	629.00	.4980-01	.3650-01	.5960-01	.9278	.2017-02	.3292-02	.2560	1.753	555.0
276	180.00	.46000	630.00	.5140-01	.3760-01	.6150-01	.9278	.2078-02	.3400-02	.2630	1.760	555.2
276	180.00	.47000	631.00	.5350-01	.3890-01	.6410-01	.9278	.2153-02	.3543-02	.2700	1.808	556.2
276	180.00	.48000	632.00	.5290-01	.3860-01	.6330-01	.9278	.2135-02	.3503-02	.2690	1.811	555.7
276	180.00	.49000	633.00	.5160-01	.3770-01	.6170-01	.9278	.2084-02	.3413-02	.2630	1.790	555.3
276	180.00	.50000	634.00	.4810-01	.3530-01	.5730-01	.9278	.1952-02	.3168-02	.2500	1.745	553.5
276	180.00	.55000	635.00	.4350-01	.3180-01	.5200-01	.9278	.1760-02	.2874-02	.2230	1.478	554.8
276	180.00	.60000	636.00	.5700-01	.4140-01	.6840-01	.9278	.2292-02	.3785-02	.2860	1.836	556.9
276	180.00	.65000	637.00	.5830-01	.4240-01	.6990-01	.9278	.2344-02	.3867-02	.2930	1.884	556.8
276	180.00	.70000	638.00	.5340-01	.3890-01	.6400-01	.9278	.2153-02	.3538-02	.2710	1.844	556.0
276	180.00	.75000	639.00	.4400-01	.3220-01	.5260-01	.9278	.1783-02	.2908-02	.2270	1.457	554.5
276	180.00	.80000	640.00	.5390-01	.3930-01	.6450-01	.9278	.2175-02	.3568-02	.2740	1.711	555.7
276	180.00	.85000	641.00	.5820-01	.4220-01	.6990-01	.9278	.2335-02	.3866-02	.2900	1.924	557.4
276	180.00	.86000	642.00	.5780-01	.4200-01	.6950-01	.9278	.2320-02	.3844-02	.2880	1.837	557.5
276	180.00	.37000	643.00	.5920-01	.4280-01	.7130-01	.9278	.2357-02	.3945-02	.2910	1.867	558.7
276	180.00	.88000	644.00	.6100-01	.4400-01	.7350-01	.9278	.2435-02	.4067-02	.2990	1.930	559.1

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
276	180.00	.89000	645.00	.5867-01	.4230-01	.7370-01	.9278	.2338-02	.3909-02	.2860	1.873	559.3
276	180.00	.90000	646.00	.4500-01	.3270-01	.5390-01	.9278	.1809-02	.2982-02	.2260	1.514	556.6
276	180.00	.95000	649.00	.5390-01	.3870-01	.6530-01	.9278	.2140-02	.3612-02	.2580	1.854	560.9
276	191.25	.35000	650.00	.5740-01	.4180-01	.6890-01	.9278	.2309-02	.3810-02	.2890	1.930	556.8
276	191.25	.36000	651.00	.5630-01	.4110-01	.6740-01	.9278	.2271-02	.3728-02	.2860	1.919	555.8
276	191.25	.37000	652.00	.5420-01	.3960-01	.6480-01	.9278	.2188-02	.3584-02	.2760	1.849	555.4
276	191.25	.37500	653.00	.5590-01	.4080-01	.6700-01	.9278	.2255-02	.3705-02	.2830	1.902	556.0
276	191.25	.38000	654.00	.5270-01	.3850-01	.6300-01	.9278	.2129-02	.3487-02	.2690	1.807	555.3
276	191.25	.38500	655.00	.5300-01	.3870-01	.6350-01	.9278	.2140-02	.3513-02	.2690	1.808	555.8
276	191.25	.39000	656.00	.5340-01	.3890-01	.6400-01	.9278	.2154-02	.3540-02	.2710	1.817	556.0
276	191.25	.39500	657.00	.5350-01	.3900-01	.6410-01	.9278	.2157-02	.3545-02	.2710	1.820	556.0
276	191.25	.40000	658.00	.5530-01	.4030-01	.6630-01	.9278	.2227-02	.3668-02	.2790	1.877	556.4
276	191.25	.41000	660.00	.5590-01	.4070-01	.6710-01	.9278	.2251-02	.3711-02	.2820	1.889	556.6
276	191.25	.41500	661.00	.5220-01	.3810-01	.6250-01	.9278	.2109-02	.3459-02	.2660	1.779	555.6
276	191.25	.42000	662.00	.5750-01	.4170-01	.6900-01	.9278	.2307-02	.3818-02	.2870	1.924	557.4
276	191.25	.42500	663.00	.5750-01	.4170-01	.6900-01	.9278	.2307-02	.3818-02	.2870	1.930	557.3
276	191.25	.43000	664.00	.5800-01	.4210-01	.6970-01	.9278	.2327-02	.3857-02	.2890	1.960	557.6
276	191.25	.44000	665.00	.6300-01	.4570-01	.7580-01	.9278	.2528-02	.4191-02	.3140	2.115	557.7
276	191.25	.45000	666.00	.6120-01	.4450-01	.7350-01	.9278	.2461-02	.4066-02	.3070	2.071	557.0
276	191.25	.45500	667.00	.5950-01	.4330-01	.7140-01	.9278	.2394-02	.3947-02	.3000	2.022	556.6
276	191.25	.46000	668.00	.5580-01	.4070-01	.6680-01	.9278	.2249-02	.3696-02	.2830	1.915	556.0
276	191.25	.47000	669.00	.6330-01	.4610-01	.7580-01	.9278	.2548-02	.4195-02	.3200	2.170	556.3
276	191.25	.48000	670.00	.6230-01	.4540-01	.7470-01	.9278	.2508-02	.4131-02	.3140	2.134	556.4
276	191.25	.49000	671.00	.6150-01	.4480-01	.7380-01	.9278	.2479-02	.4080-02	.3110	2.105	556.3
276	191.25	.50000	672.00	.5370-01	.3930-01	.6430-01	.9278	.2171-02	.3554-02	.2750	1.902	555.2
276	191.25	.60000	673.00	.5590-01	.4050-01	.6730-01	.9278	.2241-02	.3723-02	.2770	1.765	558.1
276	191.25	.70000	674.00	.5410-01	.3910-01	.6530-01	.9278	.2165-02	.3610-02	.2660	1.800	557.8
276	191.25	.85000	676.00	.5590-01	.4070-01	.6700-01	.9278	.2253-02	.3708-02	.2820	1.777	556.3
276	191.25	.86000	677.00	.5560-01	.4030-01	.6680-01	.9278	.2231-02	.3693-02	.2770	1.763	557.4
276	191.25	.87000	678.00	.5470-01	.3960-01	.6580-01	.9278	.2191-02	.3641-02	.2710	1.736	556.1
276	191.25	.88000	679.00	.5370-01	.3890-01	.6470-01	.9278	.2150-02	.3581-02	.2650	1.718	558.5
276	191.25	.89000	680.00	.5220-01	.3770-01	.6300-01	.9278	.2087-02	.3482-02	.2560	1.687	559.3
276	191.25	.90000	681.00	.4120-01	.2980-01	.4960-01	.9278	.1648-02	.2741-02	.2040	1.365	559.2
276	191.25	.91000	682.00	.1910-01	.1390-01	.2280-01	.9278	.7701-03	.1263-02	.9700-01	.7050	558.7
276	191.25	.92600	683.00	.2910-01	.2100-01	.3510-01	.9278	.1160-02	.1944-02	.1420	1.030	559.7
276	191.25	.95000	684.00	.5550-01	.3990-01	.6720-01	.9278	.2207-02	.3715-02	.2680	1.920	560.5
276	197.00	.33000	685.00	.5800-01	.4230-01	.6950-01	.9278	.2339-02	.3842-02	.2940	1.968	555.9
276	197.00	.34000	686.00	.5920-01	.4300-01	.7100-01	.9278	.2379-02	.3929-02	.2970	1.984	557.0
276	197.00	.35000	687.00	.5860-01	.4270-01	.7020-01	.9278	.2363-02	.3882-02	.2970	1.990	555.9
276	197.00	.36000	688.00	.6010-01	.4370-01	.7200-01	.9278	.2419-02	.3981-02	.3040	2.030	556.3
276	197.00	.37000	689.00	.5230-01	.3810-01	.6250-01	.9278	.2109-02	.3459-02	.2660	1.779	555.7
276	197.00	.37500	690.00	.5520-01	.4020-01	.6620-01	.9278	.2224-02	.3663-02	.2790	1.869	556.4
276	197.00	.50000	691.00	.5920-01	.4320-01	.7080-01	.9278	.2389-02	.3918-02	.3010	2.017	555.6

ORIGINAL PAGE IS
OF POOR QUALITY

IHN1(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
276	197.00	.60000	692.00	.5910-01	.4290-01	.7100-01	.9278	.2371-02	.3930-02	.2940	1.887	557.6
276	197.00	.70000	693.00	.5640-01	.4080-01	.6780-01	.9278	.2258-02	.3752-02	.2790	1.884	558.1
276	197.00	.80000	694.00	.5750-01	.4190-01	.6900-01	.9278	.2316-02	.3815-02	.2900	1.815	556.4
276	197.00	.87000	695.00	.6020-01	.4360-01	.7250-01	.9278	.2411-02	.4012-02	.2970	1.884	558.4
276	197.00	.92600	696.00	.3380-01	.2440-01	.4090-01	.9278	.1350-02	.2260-02	.1650	1.201	559.4
276	209.80	.15000-01	697.00	.1251	.9090-01	.1502	.9278	.5028-02	.8309-02	.6270	4.280	557.1
277	209.80	.30000-01	698.00	.6478	.4297	.5638	.9647	.2378-01	.3121-01	2.403	16.09	579.5
277	209.80	.50000-01	699.00	.5087	.3535	.4692	.9596	.1956-01	.2597-01	2.182	13.72	569.0
277	209.80	.70000-01	700.00	.3523	.2401	.3425	.9531	.1329-01	.1896-01	1.419	9.469	573.7
277	209.80	.10000+00	701.00	.2954	.2058	.3097	.9447	.1139-01	.1714-01	1.277	8.053	568.4
277	209.80	.15000	702.00	.1574	.1113	.1805	.9346	.6159-02	.9988-02	.7150	5.070	564.4
277	209.80	.20000	703.00	.9780-01	.7210-01	.1149	.9291	.3991-02	.6362-02	.5170	3.436	551.0
277	209.80	.30000	704.00	.6520-01	.4830-01	.7720-01	.9278	.2672-02	.4271-02	.3510	2.482	549.3
277	209.80	.37500	706.00	.5330-01	.3990-01	.6260-01	.9278	.2211-02	.3466-02	.3000	2.062	544.9
277	209.80	.50000	707.00	.5390-01	.3960-01	.6410-01	.9278	.2194-02	.3545-02	.2830	1.931	551.6
277	209.80	.60000	708.00	.5680-01	.4200-01	.6730-01	.9278	.2325-02	.3725-02	.3040	1.936	549.8
277	209.80	.70000	709.00	.5960-01	.4360-01	.7130-01	.9278	.2412-02	.3947-02	.3050	1.934	554.2
277	209.80	.80000	710.00	.6210-01	.4580-01	.7370-01	.9278	.2535-02	.4076-02	.3300	2.050	550.6
277	209.80	.87000	711.00	.6070-01	.4450-01	.7240-01	.9278	.2461-02	.4008-02	.3130	1.974	553.2
277	209.80	.92600	712.00	.3540-01	.2560-01	.4260-01	.9278	.1418-02	.2360-02	.1740	1.261	557.5
277	217.70	.15000-01	713.00	.1081	.8100-01	.1271	.9278	.4481-02	.7033-02	.6070	4.182	545.1
277	217.70	.30000-01	714.00	.6130	.4040	.5322	.9647	.2236-01	.2943-01	2.232	14.93	580.7
277	217.70	.50000-01	715.00	.5015	.3499	.4630	.9596	.1936-01	.2563-01	2.179	14.06	568.0
277	217.70	.70000-01	716.00	.3711	.2511	.3605	.9531	.1390-01	.1995-01	1.462	9.836	575.3
277	217.70	.10000+00	717.00	.2838	.1978	.2975	.9447	.1095-01	.1646-01	1.229	7.883	568.3
277	217.70	.15000	718.00	.1634	.1162	.1868	.9346	.6430-02	.1034-01	.7570	5.496	562.8
277	217.70	.20000	719.00	.1012	.7480-01	.1187	.9291	.4139-02	.6568-02	.5400	3.637	550.0
277	217.70	.30000	720.00	.6070-01	.4490-01	.7190-01	.9278	.2487-02	.3982-02	.3250	2.324	549.7
277	217.70	.35000	721.00	.6080-01	.4550-01	.7140-01	.9278	.2518-02	.3953-02	.3410	2.364	545.2
277	217.70	.37500	722.00	.5790-01	.4330-01	.6810-01	.9278	.2398-02	.3767-02	.3240	2.249	545.3
277	217.70	.50000	723.00	.5430-01	.4020-01	.6430-01	.9278	.2225-02	.3561-02	.2910	2.011	549.6
277	217.70	.70000	725.00	.5770-01	.4230-01	.6870-01	.9278	.2343-02	.3802-02	.3000	1.902	552.5
277	217.70	.80000	726.00	.6150-01	.4560-01	.7290-01	.9278	.2521-02	.4035-02	.3300	2.073	549.6
277	217.70	.87000	727.00	.5970-01	.4400-01	.7100-01	.9278	.2435-02	.3931-02	.3140	2.004	551.5
277	217.70	.92600	728.00	.3230-01	.2350-01	.3880-01	.9278	.1298-02	.2148-02	.1610	1.166	556.4

(IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = .0000 BETA = .0000 GRIT = .0000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
75	4.520	5.083	.1000-01	.0000	.0000	97.10	.3270	662.0	130.2	4.678	2527.	.2108-03
76	4.520	5.065	-.1000-01	.0000	.0000	97.30	.3280	665.0	130.7	4.688	2532.	.2105-03
77	4.520	5.031	-.1000-01	.0000	.0000	97.10	.3270	667.0	131.1	4.681	2536.	.2094-03
274	4.520	4.949	.0000	.0000	.0000	94.90	.3200	664.0	130.5	4.572	2530.	.2055-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
75	.1048-06	.4735-01	.1137-01
76	.1052-06	.4742-01	.1139-01
77	.1056-06	.4741-01	.1142-01
274	.1051-06	.4682-01	.1152-01

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
76	.00000	.30000-02	730.00	.4415	.2907	.3781	.9662	.1378-01	.1793-01	1.341	9.112	567.3
76	.00000	.10300-01	731.00	.1326	.9380-01	.1796	.9183	.4450-02	.8519-02	.5060	3.477	550.9
76	.00000	.15000-01	732.00	.6730-01	.4730-01	.9200-01	.9183	.2242-02	.4364-02	.2500	1.698	552.9
76	.00000	.20000-01	733.00	.1010-01	.6900-02	.9100-02	.9626	.3280-03	.4300-03	.3400-01	.2350	559.7
76	.00000	.25000-01	734.00	.1603	.1042	.1440	.9605	.4941-02	.6829-02	.4690	3.155	569.6
76	.00000	.30000-01	735.00	.5622	.3469	.5067	.9588	.1645-01	.2403-01	1.428	9.623	577.8
76	.00000	.40000-01	737.00	.4672	.3103	.4352	.9573	.1472-01	.2064-01	1.456	9.409	565.6
76	.00000	.45000-01	738.00	.4834	.3221	.4583	.9555	.1528-01	.2173-01	1.521	9.981	565.0
76	.00000	.60000-01	739.00	.3359	.2218	.3348	.9503	.1052-01	.1588-01	1.029	6.846	566.8
76	.00000	.70000-01	740.00	.3037	.2032	.3128	.9471	.9637-02	.1483-01	.9680	6.486	564.2
76	.00000	.80000-01	741.00	.2588	.1749	.2747	.9440	.8293-02	.1303-01	.8500	6.131	562.1
76	.00000	.10000+00	742.00	.2225	.1546	.2480	.9383	.7333-02	.1176-01	.7990	5.312	555.7
76	.00000	.12500	743.00	.1601	.1108	.1903	.9321	.5253-02	.9024-02	.5670	4.102	556.7
76	.00000	.15000	744.00	.1250	.8840-01	.1542	.9271	.4193-02	.7312-02	.4770	3.307	550.9
76	.00000	.17500	745.00	.7760-01	.5570-01	.9830-01	.9231	.2642-02	.4663-02	.3120	2.342	546.6
76	.00000	.20000	746.00	.5640-01	.4080-01	.7280-01	.9202	.1937-02	.3454-02	.2340	1.675	543.9

ORIGINAL PAGE IS
OF POOR QUALITY

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F21)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
76	.00000	.21500	747.00	.4350-01	.3170-01	.5670-01	.9191	.1502-02	.2686-02	.1830	1.273	542.6
76	.00000	.23000	748.00	.3540-01	.2570-01	.4640-01	.9184	.1221-02	.2202-02	.1480	1.100	543.0
76	.00000	.24000	749.00	.2590-01	.1880-01	.3400-01	.9183	.8936-03	.1614-02	.1090	.8210	543.0
76	.00000	.25000	750.00	.1520-01	.1110-01	.1990-01	.9183	.5255-03	.9449-03	.6400-01	.5210	542.3
76	.00000	.30000	751.00	.4160-01	.3020-01	.5470-01	.9183	.1433-02	.2595-02	.1740	1.142	543.3
76	.00000	.35000	752.00	.3870-01	.2830-01	.5070-01	.9183	.1340-02	.2402-02	.1650	1.043	541.8
76	.00000	.40000	753.00	.3840-01	.2800-01	.5030-01	.9183	.1328-02	.2383-02	.1630	1.050	541.9
76	.00000	.50000	754.00	.3390-01	.2450-01	.4470-01	.9183	.1161-02	.2119-02	.1390	.9140	544.5
76	.00000	.90000	758.00	.1450-01	.1050-01	.1900-01	.9183	.4988-03	.9007-03	.6100-01	.3930	542.9
76	55.000	.22000	759.00	.4110-01	.3000-01	.5330-01	.9188	.1425-02	.2525-02	.1760	1.317	540.8
76	55.000	.25000	760.00	.1670-01	.1220-01	.2180-01	.9183	.5791-03	.1035-02	.7100-01	.5610	541.3
76	55.000	.27000	761.00	.2400-01	.1740-01	.3150-01	.9183	.8262-03	.1491-02	.1010	.7500	542.8
76	55.000	.30000	762.00	.4170-01	.3040-01	.5440-01	.9183	.1442-02	.2580-02	.1780	1.070	541.5
76	55.000	.32000	763.00	.4440-01	.3250-01	.5770-01	.9183	.1540-02	.2737-02	.1910	1.135	540.4
76	55.000	.34000	764.00	.4610-01	.3380-01	.5990-01	.9183	.1602-02	.2842-02	.1990	1.187	540.1
76	55.000	.36000	765.00	.4110-01	.3010-01	.5330-01	.9183	.1429-02	.2527-02	.1790	1.078	539.6
76	55.000	.38000	766.00	.3930-01	.2890-01	.5100-01	.9183	.1369-02	.2421-02	.1710	1.044	539.6
76	55.000	.40000	767.00	.3900-01	.2860-01	.5050-01	.9183	.1358-02	.2394-02	.1700	1.069	539.1
76	67.500	.23000	768.00	.3550-01	.2600-01	.4620-01	.9184	.1233-02	.2189-02	.1530	1.142	540.5
76	67.500	.25000	769.00	.1670-01	.1220-01	.2180-01	.9183	.5785-03	.1032-02	.7200-01	.5580	540.9
76	67.500	.27000	770.00	.2900-01	.2110-01	.3800-01	.9183	.9994-03	.1802-02	.1220	.8900	542.7
76	67.500	.29000	771.00	.2770-01	.2020-01	.3630-01	.9187	.9578-03	.1721-02	.1170	.7280	542.2
76	67.500	.30000	772.00	.4260-01	.3100-01	.5570-01	.9186	.1471-02	.2641-02	.1800	1.105	541.9
76	67.500	.31000	773.00	.4140-01	.3020-01	.5400-01	.9183	.1432-02	.2561-02	.1760	1.073	541.4
76	67.500	.32000	774.00	.3930-01	.2880-01	.5120-01	.9183	.1367-02	.2427-02	.1700	1.025	540.3
76	67.500	.32500	775.00	.3970-01	.2910-01	.5160-01	.9183	.1381-02	.2445-02	.1720	1.043	539.8
76	67.500	.33000	776.00	.4420-01	.3240-01	.5740-01	.9183	.1535-02	.2721-02	.1910	1.161	539.9
76	67.500	.33500	777.00	.4670-01	.3430-01	.6070-01	.9183	.1627-02	.2876-02	.2030	1.234	539.6
76	67.500	.34000	778.00	.4670-01	.3430-01	.6070-01	.9183	.1625-02	.2876-02	.2030	1.231	539.8
76	67.500	.34500	779.00	.4610-01	.3380-01	.5990-01	.9183	.1605-02	.2842-02	.2000	1.218	539.8
76	67.500	.35000	780.00	.4430-01	.3250-01	.5740-01	.9183	.1542-02	.2724-02	.1930	1.178	539.4
76	67.500	.35500	781.00	.4680-01	.3440-01	.6070-01	.9183	.1630-02	.2881-02	.2040	1.248	539.5
76	67.500	.36000	782.00	.4400-01	.3230-01	.5720-01	.9183	.1532-02	.2711-02	.1910	1.170	539.7
76	67.500	.36500	783.00	.4030-01	.2960-01	.5220-01	.9183	.1403-02	.2475-02	.1760	1.073	539.2
76	67.500	.37000	784.00	.4040-01	.2970-01	.5240-01	.9183	.1407-02	.2484-02	.1760	1.081	539.3
76	67.500	.37500	785.00	.4170-01	.3060-01	.5400-01	.9183	.1452-02	.2562-02	.1820	1.126	539.2
76	67.500	.38000	786.00	.3930-01	.2890-01	.5100-01	.9183	.1370-02	.2419-02	.1710	1.063	539.4
76	67.500	.39000	787.00	.4020-01	.2950-01	.5220-01	.9183	.1398-02	.2477-02	.1740	1.084	539.9
76	67.500	.40000	788.00	.4850-01	.3560-01	.6300-01	.9183	.1688-02	.2988-02	.2110	1.322	539.7
76	67.500	.50000	789.00	.3620-01	.2640-01	.4750-01	.9183	.1252-02	.2251-02	.1530	.9840	542.2
76	67.500	.60000	790.00	.3730-01	.2740-01	.4930-01	.9183	.1299-02	.2292-02	.1630	1.072	539.3
76	67.500	.70000	791.00	.3340-01	.2440-01	.4370-01	.9183	.1155-02	.2071-02	.1420	1.004	541.8
77	67.500	.80000	792.00	.4050-01	.2990-01	.5220-01	.9183	.1420-02	.2476-02	.1810	1.142	537.2

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F21)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
77	67.500	.30000	793.00	.2210-01	.1620-01	.2880-01	.9183	.7685-03	.1368-02	.9500-01	.6160	540.7
77	78.000	.27000	794.00	.1680-01	.1360-01	.2020-01	.9130	.6113-03	.9047-03	.1220	.8720	545.3
77	78.000	.29000	795.00	.1880-01	.1550-01	.2270-01	.9130	.6931-03	.1018-02	.1410	.8690	542.2
77	78.000	.30000	796.00	.4040-01	.2990-01	.5200-01	.9183	.1416-02	.2465-02	.1810	1.103	538.9
77	78.000	.31000	797.00	.4670-01	.3460-01	.6000-01	.9183	.1638-02	.2846-02	.2100	1.280	538.5
77	78.000	.32000	798.00	.4200-01	.3110-01	.5390-01	.9183	.1474-02	.2555-02	.1900	1.151	538.0
77	78.000	.32500	799.00	.4350-01	.3220-01	.5590-01	.9183	.1529-02	.2648-02	.1970	1.197	538.0
77	78.000	.33000	800.00	.4190-01	.3110-01	.5380-01	.9183	.1475-02	.2551-02	.1910	1.158	537.7
77	78.000	.33500	801.00	.4330-01	.3210-01	.5560-01	.9183	.1523-02	.2637-02	.1960	1.193	537.9
77	78.000	.34000	802.00	.4360-01	.3240-01	.5590-01	.9183	.1535-02	.2649-02	.1990	1.208	537.4
77	78.000	.34500	803.00	.4320-01	.3210-01	.5540-01	.9183	.1521-02	.2626-02	.1970	1.200	537.4
77	78.000	.35000	804.00	.4320-01	.3210-01	.5540-01	.9183	.1522-02	.2625-02	.1980	1.203	537.2
77	78.000	.35500	805.00	.4670-01	.3470-01	.5980-01	.9183	.1645-02	.2835-02	.2130	1.300	537.1
77	78.000	.36000	806.00	.4520-01	.3370-01	.5770-01	.9183	.1596-02	.2737-02	.2080	1.274	536.3
77	78.000	.36500	807.00	.4430-01	.3290-01	.5670-01	.9183	.1560-02	.2687-02	.2020	1.240	537.1
77	78.000	.37000	808.00	.4250-01	.3160-01	.5440-01	.9183	.1497-02	.2578-02	.1950	1.195	537.0
77	78.000	.37500	809.00	.4020-01	.2990-01	.5150-01	.9183	.1416-02	.2442-02	.1880	1.129	537.2
77	78.000	.38000	810.00	.4110-01	.3060-01	.5260-01	.9183	.1449-02	.2495-02	.1880	1.163	536.9
77	78.000	.39000	811.00	.3710-01	.2780-01	.4790-01	.9183	.1318-02	.2269-02	.1710	1.060	537.0
77	78.000	.40000	812.00	.4080-01	.3030-01	.5220-01	.9183	.1437-02	.2476-02	.1870	1.157	537.0
274	90.000	.40000-01	985.00	.4681	.3125	.4364	.9573	.1463-01	.2043-01	1.461	9.421	563.9
274	90.000	.50000-01	986.00	.4372	.2946	.4219	.9537	.1379-01	.1975-01	1.403	9.007	562.0
274	90.000	.60000-01	987.00	.3370	.2222	.3358	.9503	.1040-01	.1572-01	1.013	6.604	566.4
274	90.000	.80000-01	989.00	.2778	.1873	.2950	.9440	.8770-02	.1381-01	.8930	6.281	561.9
274	90.000	.15000	991.00	.1200	.8380-01	.1496	.9271	.3926-02	.7003-02	.4320	3.165	553.6
77	90.000	.20000	813.00	.3540-01	.2620-01	.4550-01	.9184	.1241-02	.2157-02	.1590	1.162	538.7
77	90.000	.24000	814.00	.2980-01	.2200-01	.3830-01	.9183	.1043-02	.1817-02	.1330	1.083	539.0
77	90.000	.27000	816.00	.2630-01	.1940-01	.3380-01	.9183	.9217-03	.1602-02	.1180	.8440	538.6
77	90.000	.29000	817.00	.3280-01	.2430-01	.4230-01	.9183	.1151-02	.2005-02	.1470	.9200	538.9
77	90.000	.30000	818.00	.4120-01	.3050-01	.5320-01	.9183	.1445-02	.2520-02	.1850	1.133	539.1
77	90.000	.31000	819.00	.4290-01	.3180-01	.5520-01	.9183	.1506-02	.2619-02	.1930	1.175	538.7
77	90.000	.32000	820.00	.4360-01	.3230-01	.5600-01	.9183	.1531-02	.2657-02	.1970	1.195	539.3
77	90.000	.32500	821.00	.4880-01	.3620-01	.6270-01	.9183	.1717-02	.2974-02	.2210	1.340	538.0
77	90.000	.33000	822.00	.4630-01	.3430-01	.5930-01	.9183	.1628-02	.2810-02	.2110	1.282	537.3
77	90.000	.33500	823.00	.4540-01	.3370-01	.5820-01	.9183	.1599-02	.2757-02	.2070	1.263	537.2
77	90.000	.34000	824.00	.4670-01	.3470-01	.5980-01	.9183	.1644-02	.2834-02	.2130	1.293	537.1
77	90.000	.34500	825.00	.4700-01	.3490-01	.6020-01	.9183	.1656-02	.2855-02	.2150	1.305	537.2
77	90.000	.35000	826.00	.4600-01	.3420-01	.5890-01	.9183	.1623-02	.2794-02	.2110	1.281	536.9
77	90.000	.36000	828.00	.4420-01	.3280-01	.5650-01	.9183	.1556-02	.2680-02	.2020	1.225	537.0
77	90.000	.37000	830.00	.4360-01	.3240-01	.5570-01	.9183	.1537-02	.2640-02	.2000	1.222	536.5
77	90.000	.37500	831.00	.4480-01	.3330-01	.5720-01	.9183	.1580-02	.2713-02	.2060	1.263	536.4
77	90.000	.38000	832.00	.4540-01	.3380-01	.5810-01	.9183	.1600-02	.2755-02	.2080	1.274	537.0
77	90.000	.39000	833.00	.4020-01	.2990-01	.5140-01	.9183	.1416-02	.2435-02	.1850	1.143	536.6

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F21)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TH DEG. R
77	90.000	.40000	834.00	.4140-01	.3080-01	.5310-01	.9183	.1461-02	.2515-02	.1900	1.179	536.9
77	90.000	.50000	835.00	.3960-01	.2920-01	.5100-01	.9183	.1386-02	.2420-02	.1770	1.122	539.3
77	90.000	.60000	836.00	.3610-01	.2680-01	.4630-01	.9183	.1270-02	.2196-02	.1640	1.099	537.6
77	90.000	.70000	837.00	.3550-01	.2630-01	.4570-01	.9183	.1246-02	.2165-02	.1600	1.130	538.5
77	90.000	.80000	838.00	.3480-01	.2580-01	.4460-01	.9183	.1224-02	.2114-02	.1580	.9890	537.4
77	90.000	.90000	839.00	.2410-01	.1900-01	.3080-01	.9183	.8514-03	.1461-02	.1110	.7150	536.3
77	112.50	.23000	840.00	.4060-01	.3000-01	.5220-01	.9184	.1421-02	.2475-02	.1820	1.469	539.1
77	112.50	.25000	841.00	.2100-01	.1560-01	.2700-01	.9183	.7373-03	.1280-02	.9500-01	.7370	538.4
77	112.50	.27000	842.00	.1880-01	.1400-01	.2420-01	.9183	.6618-03	.1148-02	.8500-01	.5980	538.2
77	112.50	.30000	843.00	.4460-01	.3300-01	.5750-01	.9183	.1564-02	.2727-02	.2000	1.193	539.2
77	112.50	.33000	844.00	.4570-01	.3380-01	.5880-01	.9183	.1602-02	.2786-02	.2050	1.244	538.7
77	112.50	.35000	845.00	.4550-01	.3380-01	.5840-01	.9183	.1601-02	.2769-02	.2070	1.273	537.8
77	112.50	.37000	846.00	.4230-01	.3140-01	.5420-01	.9183	.1489-02	.2572-02	.1930	1.193	537.5
77	112.50	.40000	847.00	.4380-01	.3260-01	.5600-01	.9183	.1544-02	.2654-02	.2010	1.261	536.5
77	112.50	.45000	848.00	.4210-01	.3130-01	.5390-01	.9183	.1482-02	.2553-02	.1920	1.215	537.1
77	112.50	.50000	849.00	.4120-01	.3050-01	.5300-01	.9183	.1444-02	.2512-02	.1850	1.196	538.7
77	112.50	.55000	850.00	.3210-01	.2380-01	.4120-01	.9183	.1126-02	.1954-02	.1450	.9720	538.3
77	112.50	.60000	851.00	.3810-01	.2830-01	.4890-01	.9183	.1341-02	.2319-02	.1730	1.165	537.8
77	112.50	.65000	852.00	.3920-01	.2910-01	.5030-01	.9183	.1379-02	.2387-02	.1780	1.217	537.8
77	112.50	.70000	853.00	.5000-01	.3700-01	.6450-01	.9183	.1753-02	.3057-02	.2240	1.577	539.2
77	112.50	.75000	854.00	.4020-01	.2980-01	.5150-01	.9183	.1414-02	.2441-02	.1830	1.193	537.4
77	112.50	.80000	855.00	.3650-01	.2630-01	.4550-01	.9183	.1247-02	.2158-02	.1610	1 051	537.9
77	112.50	.90000	856.00	.2450-01	.1830-01	.3140-01	.9183	.8663-03	.1486-02	.1130	.7380	536.3
77	125.40	.84000	857.00	.3470-01	.2580-01	.4440-01	.9183	.1224-02	.2106-02	.1590	.9890	536.8
77	125.40	.85000	858.00	.3480-01	.2580-01	.4450-01	.9183	.1225-02	.2109-02	.1590	.9940	537.0
77	125.40	.86000	859.00	.3630-01	.2700-01	.4650-01	.9183	.1278-02	.2204-02	.1660	1.043	537.2
77	125.40	.87000	860.00	.3290-01	.2440-01	.4230-01	.9183	.1158-02	.2003-02	.1500	.9440	537.8
77	125.40	.88000	861.00	.3370-01	.2500-01	.4330-01	.9183	.1184-02	.2053-02	.1520	.9620	538.2
77	125.40	.89000	862.00	.3240-01	.2410-01	.4170-01	.9183	.1140-02	.1975-02	.1470	.9330	538.0
77	125.40	.90000	863.00	.3010-01	.2240-01	.3860-01	.9183	.1061-02	.1831-02	.1380	.8780	537.3
77	125.40	.91000	864.00	.1710-01	.1280-01	.2170-01	.9183	.6046-03	.1030-02	.8000-01	.5840	534.9
77	125.40	.92600	865.00	.1880-01	.1390-01	.2420-01	.9183	.6611-03	.1148-02	.8500-01	.6180	538.4
77	129.30	.80000	866.00	.3550-01	.2650-01	.4530-01	.9183	.1258-02	.2150-02	.1650	1.045	535.5
77	129.30	.81000	867.00	.3620-01	.2690-01	.4630-01	.9183	.1277-02	.2193-02	.1670	1.047	536.4
77	129.30	.82000	868.00	.3580-01	.2670-01	.4560-01	.9183	.1264-02	.2163-02	.1660	1.040	535.9
77	129.30	.83000	869.00	.3550-01	.2640-01	.4530-01	.9183	.1251-02	.2150-02	.1630	1.027	536.5
77	135.00	.40000-01	870.00	.4872	.3398	.4582	.9573	.1611-01	.2172-01	1.776	11.36	556.7
77	135.00	.50000-01	871.00	.4634	.3254	.4491	.9538	.1543-01	.2129-01	1.727	11.00	554.9
77	135.00	.60000-01	872.00	.3502	.2398	.3491	.9503	.1137-01	.1655-01	1.232	7.926	561.1
77	135.00	.70000-01	873.00	.3293	.2271	.3381	.9471	.1076-01	.1603-01	1.156	7.818	559.5
77	135.00	.10000+00	875.00	.2374	.1697	.2618	.9383	.8045-02	.1241-01	.9400	6.161	550.0
77	135.00	.15000	876.00	.1338	.9520-01	.1629	.9271	.4563-02	.7721-02	.5420	3.967	548.0
77	135.00	.20000	877.00	.6800-01	.5010-01	.8640-01	.9202	.2376-02	.4095-02	.3010	2.036	540.2

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F21)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
77	135.00	.35000	878.00	.4620-01	.3430-01	.5930-01	.9183	.1625-02	.2812-02	.2100	1 310	537.8
77	135.00	.40000	879.00	.4090-01	.3040-01	.5240-01	.9183	.1442-02	.2486-02	.1870	1.191	537.2
77	135.00	.50000	880.00	.3760-01	.2780-01	.4840-01	.9183	.1319-02	.2293-02	.1690	1.166	538.7
77	135.00	.55000	881.00	.2880-01	.2140-01	.3700-01	.9183	.1014-02	.1756-02	.1310	.8750	538.0
77	135.00	.60000	882.00	.3710-01	.2750-01	.4770-01	.9183	.1306-02	.2259-02	.1690	1.139	537.8
77	135.00	.65000	883.00	.3950-01	.2930-01	.5070-01	.9183	.1391-02	.2402-02	.1800	1.235	537.4
274	135.00	.70000	884.00	.1400-01	.1030-01	.1830-01	.9183	.4805-03	.8579-03	.5900-01	.4220	540.3
274	135.00	.75000	885.00	.1620-01	.1180-01	.2130-01	.9183	.5507-03	.9979-03	.6700-01	.4210	542.6
274	135.00	.80000	886.00	.2370-01	.1730-01	.3090-01	.9183	.8085-03	.1447-02	.9900-01	.6260	540.7
274	135.00	.84000	887.00	.7590-01	.5980-01	.9460-01	.9130	.2678-02	.4234-02	.0000	.0000	244.7
274	135.00	.85000	888.00	.3200-01	.2290-01	.4270-01	.9183	.1070-02	.2001-02	.1250	.7900	547.2
274	135.00	.87000	890.00	.2990-01	.2140-01	.3990-01	.9183	.1000-02	.1870-02	.1170	.7410	547.1
274	135.00	.88000	891.00	.3140-01	.2230-01	.4220-01	.9183	.1044-02	.1978-02	.1200	.7670	548.8
274	135.00	.89000	892.00	.3010-01	.2140-01	.4060-01	.9183	.9997-03	.1902-02	.1140	.7420	549.5
274	135.00	.91000	894.00	.1130-01	.8000-02	.1530-01	.9183	.3767-03	.7162-03	.4300-01	.3140	549.3
274	135.00	.92600	895.00	.1890-01	.1340-01	.2570-01	.9183	.6263-03	.1203-02	.7100-01	.5140	550.7
274	135.00	.95000	896.00	.4200-01	.2970-01	.5710-01	.9183	.1389-02	.2673-02	.1570	1.130	550.9
274	142.30	.42000	897.00	.4040-01	.2930-01	.5320-01	.9183	.1371-02	.2492-02	.1650	1.065	543.2
274	142.30	.43500	898.00	.3890-01	.2830-01	.5110-01	.9183	.1323-02	.2392-02	.1610	1.005	542.4
274	142.30	.45000	899.00	.3820-01	.2780-01	.5020-01	.9183	.1300-02	.2351-02	.1580	1.034	542.5
274	142.30	.50000	900.00	.3560-01	.2570-01	.4720-01	.9183	.1204-02	.2209-02	.1430	.9560	544.6
274	142.30	.60000	901.00	.3640-01	.2630-01	.4810-01	.9183	.1233-02	.2251-02	.1480	.9830	543.9
274	142.30	.70000	902.00	.3670-01	.2630-01	.4890-01	.9183	.1233-02	.2287-02	.1450	.9910	546.1
274	142.30	.80000	903.00	.3680-01	.2640-01	.4900-01	.9183	.1235-02	.2296-02	.1450	.9220	546.3
274	142.30	.87000	904.00	.3400-01	.2420-01	.4550-01	.9183	.1135-02	.2132-02	.1320	.8310	547.8
274	154.98	.42000	905.00	.4100-01	.2970-01	.5410-01	.9183	.1391-02	.2535-02	.1670	1.080	543.6
274	154.98	.43500	906.00	.3960-01	.2870-01	.5200-01	.9183	.1345-02	.2435-02	.1630	1.060	542.5
274	154.98	.45000	907.00	.3840-01	.2780-01	.5050-01	.9183	.1303-02	.2365-02	.1570	1.028	543.0
274	154.98	.50000	908.00	.3380-01	.2440-01	.4490-01	.9183	.1141-02	.2101-02	.1350	.9690	545.1
274	154.98	.93500	913.00	.2090-01	.1470-01	.2840-01	.9183	.6896-03	.1332-02	.7800-01	.5630	551.3
274	154.98	.94500	914.00	.3020-01	.2120-01	.4130-01	.9183	.9944-03	.1933-02	.1110	.7970	552.1
274	157.50	.70000-01	918.00	.3000	.1990	.3092	.9471	.9317-02	.1448-01	.9180	6.323	565.2
274	157.50	.80000-01	919.00	.2838	.1901	.3016	.9440	.8902-02	.1412-01	.8950	6.061	563.2
274	157.50	.10000+00	920.00	.2242	.1544	.2506	.9383	.7230-02	.1173-01	.7710	5.125	557.1
274	157.50	.20000	922.00	.6020-01	.4340-01	.7810-01	.9202	.2032-02	.3658-02	.2420	1.615	544.6
274	157.50	.42000	923.00	.3890-01	.2820-01	.5110-01	.9183	.1321-02	.2392-02	.1600	1.046	542.6
274	157.50	.43500	924.00	.3680-01	.2670-01	.4830-01	.9183	.1250-02	.2263-02	.1520	.9940	542.5
274	157.50	.45000	925.00	.3620-01	.2630-01	.4760-01	.9183	.1232-02	.2230-02	.1490	.9870	542.6
274	157.50	.85000	926.00	.2800-01	.2010-01	.3740-01	.9183	.9407-03	.1752-02	.1100	.7130	546.6
274	157.50	.86000	927.00	.2750-01	.1970-01	.3680-01	.9183	.9217-03	.1722-02	.1080	.6970	547.1
274	157.50	.87000	928.00	.3460-01	.2480-01	.4620-01	.9183	.1160-02	.2162-02	.1360	.8840	546.7
274	157.50	.88000	929.00	.2760-01	.1970-01	.3700-01	.9183	.9237-03	.1734-02	.1070	.7010	547.7
274	157.50	.89000	930.00	.2690-01	.1910-01	.3630-01	.9183	.8963-03	.1702-02	.1030	.6750	549.2

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F21)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
274	157.50	.90000	931.00	.2190-01	.1550-01	.2950-01	.9183	.7275-03	.1380-02	.8300-01	.5620	549.1
274	157.50	.91000	932.00	.1180-01	.8400-02	.1600-01	.9183	.3923-03	.7498-03	.4500-01	.3260	550.0
274	157.50	.92600	933.00	.1700-01	.1200-01	.2310-01	.9183	.5616-03	.1079-02	.6400-01	.4620	550.7
274	163.12	.41500	934.00	.4030-01	.2940-01	.5280-01	.9183	.1375-02	.2470-02	.1680	1.093	541.5
274	163.12	.42000	935.00	.4170-01	.3020-01	.5490-01	.9183	.1416-02	.2572-02	.1710	1.121	543.1
274	163.12	.43000	937.00	.3820-01	.2770-01	.5030-01	.9183	.1298-02	.2354-02	.1570	1.032	542.9
274	163.12	.44000	938.00	.3900-01	.2830-01	.5130-01	.9183	.1325-02	.2404-02	.1600	1.050	542.9
274	163.12	.44500	939.00	.3890-01	.2820-01	.5110-01	.9183	.1320-02	.2395-02	.1590	1.061	543.0
274	163.12	.45000	940.00	.3620-01	.2630-01	.4770-01	.9183	.1229-02	.2233-02	.1480	.9660	543.2
274	163.12	.50000	941.00	.3780-01	.2730-01	.4990-01	.9183	.1280-02	.2338-02	.1530	1.042	543.9
274	163.12	.60000	942.00	.3550-01	.2560-01	.4680-01	.9183	.1200-02	.2192-02	.1440	.9290	543.9
274	163.12	.70000	943.00	.3060-01	.2200-01	.4050-01	.9183	.1031-02	.1898-02	.1220	.8410	545.1
274	163.12	.80000	944.00	.3070-01	.2200-01	.4090-01	.9183	.1029-02	.1916-02	.1200	.7860	546.7
274	168.00	.35000	945.00	.4110-01	.2990-01	.5380-01	.9183	.1400-02	.2520-02	.1710	1.084	541.8
274	168.00	.36000	946.00	.3980-01	.2900-01	.5210-01	.9183	.1359-02	.2437-02	.1670	1.062	541.2
274	168.00	.37500	948.00	.3870-01	.2810-01	.5080-01	.9183	.1317-02	.2377-02	.1600	1.023	542.2
274	168.00	.38500	950.00	.3220-01	.2340-01	.4210-01	.9183	.1097-02	.1973-02	.1340	.8670	541.6
274	168.00	.39000	951.00	.3790-01	.2760-01	.4970-01	.9183	.1293-02	.2329-02	.1580	1.025	541.8
274	168.00	.39500	952.00	.3750-01	.2720-01	.4930-01	.9183	.1276-02	.2306-02	.1550	.9920	542.4
274	168.00	.40000	953.00	.3800-01	.2760-01	.5010-01	.9183	.1292-02	.2344-02	.1560	1.018	542.9
274	168.00	.40500	954.00	.3710-01	.2700-01	.4880-01	.9183	.1263-02	.2285-02	.1530	1.002	542.5
274	168.00	.41000	955.00	.3850-01	.2790-01	.5050-01	.9183	.1308-02	.2366-02	.1590	1.037	542.5
274	168.00	.41500	956.00	.3920-01	.2850-01	.5150-01	.9183	.1334-02	.2413-02	.1620	1.060	542.5
274	168.00	.42000	957.00	.3830-01	.2780-01	.5030-01	.9183	.1303-02	.2354-02	.1580	1.041	542.3
274	168.00	.42500	958.00	.3910-01	.2840-01	.5140-01	.9183	.1330-02	.2408-02	.1610	1.060	542.6
274	168.00	.43000	959.00	.4070-01	.2950-01	.5360-01	.9183	.1382-02	.2503-02	.1670	1.094	543.0
274	168.00	.44000	960.00	.4210-01	.3060-01	.5540-01	.9183	.1432-02	.2595-02	.1730	1.139	542.7
274	168.00	.44500	961.00	.3860-01	.2800-01	.5070-01	.9183	.1309-02	.2375-02	.1580	1.040	543.0
274	168.00	.45500	963.00	.3600-01	.2610-01	.4740-01	.9183	.1220-02	.2217-02	.1470	.9730	543.2
274	168.00	.46000	964.00	.3840-01	.2780-01	.5060-01	.9183	.1303-02	.2369-02	.1570	1.044	543.3
274	168.00	.47000	965.00	.3700-01	.2680-01	.4880-01	.9183	.1254-02	.2285-02	.1510	1.006	543.5
274	168.00	.48000	966.00	.3770-01	.2730-01	.4970-01	.9183	.1277-02	.2328-02	.1530	1.033	543.6
274	168.00	.49000	967.00	.3400-01	.2470-01	.4470-01	.9183	.1154-02	.2093-02	.1400	.9400	542.8
274	168.00	.85000	968.00	.3010-01	.2160-01	.4010-01	.9183	.1009-02	.1876-02	.1180	.7680	546.4
274	168.00	.86000	969.00	.2870-01	.2050-01	.3840-01	.9183	.9620-03	.1797-02	.1120	.7300	547.0
274	168.00	.87000	970.00	.2870-01	.2050-01	.3840-01	.9183	.9602-03	.1796-02	.1120	.7300	547.2
274	168.00	.88000	971.00	.2750-01	.1960-01	.3700-01	.9183	.9179-03	.1734-02	.1060	.6920	548.5
274	168.00	.89000	972.00	.2850-01	.2020-01	.3860-01	.9183	.9468-03	.1806-02	.1080	.7160	549.8
274	168.00	.90000	973.00	.2180-01	.1550-01	.2940-01	.9183	.7278-03	.1377-02	.8400-01	.5690	548.7
274	168.00	.91000	974.00	.1120-01	.7900-02	.1510-01	.9183	.3717-03	.7060-03	.4300-01	.3100	549.2
274	168.00	.92600	975.00	.1660-01	.1170-01	.2270-01	.9183	.5491-03	.1062-02	.6200-01	.4460	551.5
274	168.00	.95000	976.00	.3380-01	.2370-01	.4610-01	.9183	.1112-02	.2158-02	.1240	.8930	551.9
274	180.00	.20000-01	982.00	.9990-01	.7220-01	.9110-01	.9626	.3378-02	.4265-02	.4040	2.811	544.2

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F21)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
274	180.00	.25000-01	983.00	.3299	.2257	.3006	.9605	.1057-01	.1408-01	1.111	7.630	558.6
274	180.00	.30000-01	984.00	.5946	.3734	.5383	.9588	.1748-01	.2520-01	1.560	10.56	574.5
75	180.00	.40000-01	600.00	.5173	.3481	.4831	.9573	.1648-01	.2287-01	1.668	10.65	560.9
75	180.00	.50000-01	601.00	.4558	.3098	.4404	.9537	.1467-01	.2085-01	1.516	9.717	558.8
75	180.00	.60000-01	602.00	.3552	.2343	.3541	.9503	.1110-01	.1676-01	1.079	7.125	564.9
75	180.00	.70000-01	603.00	.3216	.2133	.3314	.9471	.1010-01	.1569-01	.9930	6.721	563.8
75	180.00	.80000-01	604.00	.3148	.2111	.3346	.9440	.9997-02	.1584-01	1.005	6.490	561.6
75	180.00	.10000+00	605.00	.2123	.1457	.2387	.9383	.6897-02	.1130-01	.7230	5.161	557.3
75	180.00	.15000	606.00	.1220	.8470-01	.1530	.9271	.4010-02	.7243-02	.4340	3.143	554.0
75	180.00	.20000	607.00	.6360-01	.4530-01	.8370-01	.9202	.2147-02	.3961-02	.2480	1.615	546.8
75	180.00	.21000	608.00	.4820-01	.3450-01	.6360-01	.9194	.1633-02	.3009-02	.1910	1.318	545.5
75	180.00	.22000	609.00	.3780-01	.2710-01	.5020-01	.9188	.1285-02	.2375-02	.1510	1.121	545.0
75	180.00	.30000	610.00	.4260-01	.3070-01	.5660-01	.9183	.1453-02	.2679-02	.1720	1.177	544.0
75	180.00	.35000	611.00	.3840-01	.2770-01	.5100-01	.9183	.1310-02	.2415-02	.1550	1.033	544.0
75	180.00	.36000	612.00	.3740-01	.2700-01	.4960-01	.9183	.1277-02	.2349-02	.1510	1.018	543.7
75	180.00	.37000	613.00	.3840-01	.2770-01	.5090-01	.9183	.1310-02	.2411-02	.1550	1.045	543.7
75	180.00	.37500	614.00	.3690-01	.2650-01	.4900-01	.9183	.1256-02	.2319-02	.1480	.9970	544.2
75	180.00	.38000	615.00	.3620-01	.2320-01	.4270-01	.9183	.1096-02	.2021-02	.1300	.8720	544.0
75	180.00	.38500	616.00	.3730-01	.2440-01	.4490-01	.9183	.1154-02	.2127-02	.1370	.9190	543.9
75	180.00	.39000	617.00	.3780-01	.2730-01	.5010-01	.9183	.1292-02	.2373-02	.1530	1.030	543.4
75	180.00	.39500	618.00	.3880-01	.2800-01	.5150-01	.9183	.1325-02	.2439-02	.1570	1.059	543.7
75	180.00	.40000	619.00	.3650-01	.2630-01	.4840-01	.9183	.1244-02	.2291-02	.1470	.9880	543.8
75	180.00	.40500	620.00	.3730-01	.2690-01	.4940-01	.9183	.1273-02	.2341-02	.1510	1.017	543.5
75	180.00	.41000	621.00	.4020-01	.2900-01	.5330-01	.9183	.1373-02	.2525-02	.1630	1.096	543.6
75	180.00	.41500	622.00	.4070-01	.2930-01	.5390-01	.9183	.1388-02	.2551-02	.1650	1.105	543.5
75	180.00	.42500	624.00	.4180-01	.3000-01	.5560-01	.9183	.1422-02	.2634-02	.1670	1.121	544.6
75	180.00	.43000	625.00	.4210-01	.3030-01	.5600-01	.9183	.1432-02	.2652-02	.1690	1.134	544.5
75	180.00	.44000	626.00	.4050-01	.2910-01	.5370-01	.9183	.1380-02	.2543-02	.1630	1.099	543.9
75	180.00	.44500	627.00	.3510-01	.2520-01	.4660-01	.9183	.1194-02	.2207-02	.1410	.9550	544.3
75	180.00	.45000	628.00	.3360-01	.2420-01	.4470-01	.9183	.1145-02	.2117-02	.1350	.9150	544.4
75	180.00	.45500	629.00	.3340-01	.2400-01	.4440-01	.9183	.1139-02	.2101-02	.1340	.9270	544.1
75	180.00	.46000	630.00	.3430-01	.2470-01	.4550-01	.9183	.1171-02	.2156-02	.1390	.9330	543.8
75	180.00	.47000	631.00	.3370-01	.2420-01	.4480-01	.9183	.1147-02	.2120-02	.1350	.9090	544.3
75	180.00	.49000	633.00	.3440-01	.2470-01	.4560-01	.9183	.1171-02	.2161-02	.1380	.9450	544.1
75	180.00	.50000	634.00	.3120-01	.2250-01	.4130-01	.9183	.1065-02	.1956-02	.1260	.8860	543.4
75	180.00	.55000	635.00	.2810-01	.2020-01	.3730-01	.9183	.9574-03	.1764-02	.1130	.7530	543.9
75	180.00	.60000	636.00	.3260-01	.2340-01	.4330-01	.9183	.1110-02	.2050-02	.1310	.8450	544.2
75	180.00	.65000	637.00	.3330-01	.2390-01	.4430-01	.9183	.1131-02	.2099-02	.1330	.8580	544.9
75	180.00	.70000	638.00	.3250-01	.2330-01	.4340-01	.9183	.1105-02	.2056-02	.1290	.8850	545.3
75	180.00	.75000	639.00	.2830-01	.2040-01	.3760-01	.9183	.9653-03	.1778-02	.1140	.7380	543.8
75	180.00	.80000	640.00	.2890-01	.2070-01	.3860-01	.9183	.9819-03	.1828-02	.1150	.7200	545.3
75	180.00	.85000	641.00	.2900-01	.2080-01	.3880-01	.9183	.9828-03	.1839-02	.1140	.7220	546.0
75	180.00	.86000	642.00	.3090-01	.2200-01	.4130-01	.9183	.1044-02	.1958-02	.1210	.7750	546.3

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F21)

(IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF P=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
75	180.00	.87000	643.00	.3930-01	.2810-01	.5270-01	.9183	.1329-02	.2494-02	.1540	.9920	546.4
75	180.00	.88000	644.00	.4190-01	.2990-01	.5620-01	.9183	.1414-02	.2661-02	.1630	1.062	546.7
75	180.00	.89000	645.00	.3170-01	.2260-01	.4260-01	.9183	.1071-02	.2016-02	.1240	.8140	546.8
75	180.00	.90000	646.00	.1880-01	.1350-01	.2510-01	.9183	.6384-03	.1187-02	.7500-01	.5030	545.1
75	180.00	.92600	648.00	.1420-01	.1010-01	.1900-01	.9183	.4805-03	.9007-03	.5600-01	.4070	546.2
75	180.00	.95000	649.00	.3900-01	.2780-01	.5240-01	.9183	.1318-02	.2479 02	.1520	1.100	546.7
75	191.25	.35000	650.00	.4110-01	.2950-01	.5480-01	.9183	.1397-02	.2594-02	.1640	1.107	544.9
75	191.25	.36000	651.00	.3870-01	.2780-01	.5140-01	.9183	.1316-02	.2433-02	.1550	1.047	544.3
75	191.25	.37000	652.00	.4070-01	.2920-01	.5400-01	.9183	.1385-02	.2557-02	.1630	1.099	544.2
75	191.25	.37500	653.00	.3750-01	.2690-01	.4980-01	.9183	.1275-02	.2358-02	.1500	1.014	544.4
75	191.25	.38000	654.00	.3680-01	.2650-01	.4900-01	.9183	.1254-02	.2321-02	.1480	.9960	544.5
75	191.25	.38500	655.00	.3750-01	.2700-01	.4990-01	.9183	.1278-02	.2361-02	.1510	1.018	544.2
75	191.25	.39000	656.00	.3850-01	.2770-01	.5110-01	.9183	.1311-02	.2421-02	.1550	1.044	544.2
75	191.25	.39500	657.00	.4710-01	.3380-01	.6280-01	.9183	.1601-02	.2974-02	.1880	1.266	545.0
75	191.25	.40000	658.00	.4510-01	.3240-01	.6010-01	.9183	.1533-02	.2846-02	.1800	1.216	544.9
75	191.25	.40500	659.00	.3480-01	.2490-01	.4650-01	.9183	.1181-02	.2200-02	.1380	.9330	545.4
75	191.25	.41000	660.00	.3780-01	.2720-01	.5020-01	.9183	.1289-02	.2377-02	.1520	1.028	544.0
75	191.25	.41500	661.00	.3610-01	.2600-01	.4800-01	.9183	.1231-02	.2275-02	.1450	.9760	544.3
75	191.25	.42000	662.00	.3860-01	.2770-01	.5130-01	.9183	.1313-02	.2430-02	.1550	1.043	544.5
75	191.25	.42500	663.00	.3860-01	.2770-01	.5120-01	.9183	.1314-02	.2425-02	1550	1.050	544.1
75	191.25	.43000	664.00	.3730-01	.2680-01	.4960-01	.9183	.1270-02	.2349-02	.1500	1.023	544.4
75	191.25	.44000	665.00	.3720-01	.2680-01	.4950-01	.9183	.1267-02	.2346-02	.1490	1.012	544.5
75	191.25	.45000	666.00	.3460-01	.2480-01	.4610-01	.9183	.1176-02	.2181-02	.1380	.9380	544.7
75	191.25	.45500	667.00	.3640-01	.2610-01	.4840-01	.9183	.1237-02	.2294-02	.1450	.9870	544.7
75	191.25	.46000	668.00	.3610-01	.2600-01	.4810-01	.9183	.1229-02	.2276-02	.1450	.9850	544.5
75	191.25	.47000	669.00	.3750-01	.2710-01	.4990-01	.9183	.1282-02	.2362-02	.1520	1.036	543.3
75	191.25	.48000	670.00	.3910-01	.2820-01	.5180-01	.9183	.1337-02	.2453-02	.1590	1.087	543.2
75	191.25	.49000	671.00	.3560-01	.2560-01	.4750-01	.9183	.1210-02	.2247-02	.1420	.9670	544.9
75	191.25	.50000	672.00	.3640-01	.2620-01	.4830-01	.9183	.1241-02	.2288-02	.1470	1.022	543.9
75	191.25	.60000	673.00	.3340-01	.2390-01	.4440-01	.9183	.1133-02	.2104-02	.1330	.8530	544.9
75	191.25	.70000	674.00	.3450-01	.2470-01	.4630-01	.9183	.1167-02	.2191-02	.1350	.9200	546.4
75	191.25	.85000	676.00	.3340-01	.2390-01	.4470-01	.9133	.1131-02	.2117-02	.1310	.8310	546.0
75	191.25	.86000	677.00	.3230-01	.2310-01	.4320-01	.9183	.1092-02	.2046-02	.1270	.8100	546.2
75	191.25	.87000	678.00	.3320-01	.2370-01	.4440-01	.9183	.1121-02	.2104-02	.1300	.8370	546.4
75	191.25	.88000	679.00	.3330-01	.2370-01	.4460-01	.9183	.1124-02	.2113-02	.1300	.8470	546.6
75	191.25	.89000	680.00	.3210-01	.2290-01	.4310-01	.9183	.1086-02	.2043-02	.1250	.8300	546.7
75	191.25	.90000	681.00	.2720-01	.1940-01	.3640-01	.9183	.9191-03	.1721-02	.1070	.7190	546.1
75	191.25	.91000	682.00	.8100-02	.5800-02	.1080-01	.9183	.2767-03	.5117-03	.3300-01	.2380	544.3
75	191.25	.92600	683.00	.1530-01	.1090-01	.2040-01	.9183	.5166-03	.9666-03	.6000-01	.4400	546.0
75	191.25	.95000	684.00	.4130-01	.2950-01	.5530-01	.9183	.1395-02	.2618 02	.1620	1.169	546.3
75	197.00	.33000	685.00	.4170-01	.3000-01	.5550-01	.9183	.1419-02	.2626-02	.1670	1.123	544.5
75	197.00	.34000	686.00	.4090-01	.2940-01	.5440-01	.9183	.1390-02	.2573-02	.1640	1.101	544.5
75	197.00	.35000	687.00	.4360-01	.3140-01	.5780-01	.9183	.1485-02	.2738-02	.1760	1.182	543.9

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F21)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TH DEG. R
75	197.00	.36000	688.00	.4200-01	.3020-01	.5580-01	.9183	.1429-02	.2640-02	.1690	1.135	544.2
75	197.00	.37000	689.00	.3930-01	.2830-01	.5220-01	.9183	.1340-02	.2474-02	.1580	1.065	544.1
75	197.00	.37500	690.00	.3790-01	.2730-01	.5050-01	.9183	.1291-02	.2390-02	.1520	1.025	544.5
75	197.00	.50000	691.00	.3810-01	.2740-01	.5060-01	.9183	.1299-02	.2394-02	.1540	1.034	543.9
75	197.00	.60000	692.00	.3460-01	.2490-01	.4590-01	.9183	.1178-02	.2174-02	.1390	.8970	544.2
75	197.00	.70000	693.00	.3240-01	.2330-01	.4310-01	.9183	.1101-02	.2041-02	.1290	.8780	544.7
75	197.00	.80000	694.00	.3450-01	.2470-01	.4590-01	.9183	.1171-02	.2172-02	.1380	.8650	544.7
75	197.00	.87000	695.00	.3430-01	.2450-01	.4600-01	.9183	.1161-02	.2176-02	.1350	.8590	546.1
77	209.80	.15000-01	697.00	.5690-01	.4070-01	.7620-01	.9183	.1928-02	.3607-02	.2240	1.539	546.0
76	209.80	.30000-01	698.00	.6613	.4291	.6035	.9588	.2035-01	.2862-01	1.926	12.96	569.9
76	209.80	.50000-01	699.00	.4840	.3311	.4678	.9538	.1570-01	.2218-01	1.651	10.43	559.4
76	209.80	.70000-01	700.00	.3298	.2226	.3393	.9471	.1055-01	.1609-01	1.079	7.239	562.3
76	209.80	.10000+00	701.00	.2438	.1689	.2719	.9383	.8010-02	.1289-01	.8670	5.500	556.3
76	209.80	.15000	702.00	.1206	.8490-01	.1493	.9271	.4028-02	.7078-02	.4530	3.232	552.1
76	209.80	.20000	703.00	.6350-01	.4600-01	.8210-01	.9202	.2183-02	.3894-02	.2630	1.756	544.0
76	209.80	.30000	704.00	.4400-01	.3190-01	.5790-01	.9183	.1512-02	.2745-02	.1830	1.297	543.7
76	209.80	.35000	705.00	.4070-01	.2980-01	.5320-01	.9183	.1411-02	.2521-02	.1740	1.194	541.3
76	209.80	.37500	706.00	.3800-01	.2780-01	.4950-01	.9183	.1317-02	.2345-02	.1630	1.123	540.8
76	209.80	.50000	707.00	.3710-01	.2700-01	.4860-01	.9183	.1281-02	.2304-02	.1570	1.075	542.3
76	209.80	.60000	708.00	.2690-01	.1980-01	.3480-01	.9183	.9378-03	.1652-02	.1180	.7540	539.0
76	209.80	.70000	709.00	.3460-01	.2530-01	.4530-01	.9183	.1198-02	.2147-02	.1470	.9400	541.8
76	209.80	.80000	710.00	.3970-01	.2930-01	.5130-01	.9183	.1389-02	.2432-02	.1760	1.100	538.0
76	209.80	.87000	711.00	.4020-01	.2940-01	.5220-01	.9183	.1396-02	.2476-02	.1740	1.102	540.1
76	209.80	.92600	712.00	.1870-01	.1360-01	.2450-01	.9183	.6432-03	.1164-02	.7800-01	.5680	543.2
76	217.70	.30000-01	714.00	.6497	.4206	.5926	.9588	.1994-01	.2810-01	1.879	12.63	570.4
76	217.70	.50000-01	715.00	.4767	.3264	.4608	.9538	.1548-01	.2185-01	1.632	10.58	559.2
76	217.70	.70000-01	716.00	.3155	.2124	.3247	.9471	.1007-01	.1540-01	1.024	6.93	562.9
76	217.70	.10000+00	717.00	.2185	.1522	.2432	.9383	.7218-02	.1153-01	.7910	5.107	555.0
76	217.70	.15000	718.00	.1204	.8500-01	.1489	.9271	.4031-02	.7061-02	.4550	3.324	551.6
76	217.70	.20000	719.00	.6340-01	.4620-01	.8170-01	.9202	.2189-02	.3872-02	.2670	1.803	542.6
76	217.70	.30000	720.00	.4310-01	.3130-01	.5680-01	.9183	.1483-02	.2692-02	.1790	1.284	543.7
76	217.70	.35000	721.00	.4080-01	.2980-01	.5310-01	.9183	.1414-02	.2519-02	.1750	1.216	540.9
76	217.70	.37500	722.00	.3720-01	.2720-01	.4850-01	.9183	.1291-02	.2300-02	.1600	1.111	540.8
76	217.70	.50000	723.00	.3350-01	.2440-01	.4390-01	.9183	.1156-02	.2080-02	.1410	.9780	542.4
76	217.70	.60000	724.00	.3970-01	.2920-01	.5140-01	.9183	.1385-02	.2440-02	.1740	1.117	539.0
76	217.70	.70000	725.00	.3650-01	.2660-01	.4760-01	.9183	.1263-02	.2255-02	.1560	.9940	541.2
76	217.70	.80000	726.00	.3990-01	.2940-01	.5160-01	.9183	.1396-02	.2445-02	.1770	1.116	538.0
76	217.70	.87000	727.00	.3870-01	.2840-01	.5020-01	.9183	.1347-02	.2381-02	.1680	1.080	539.6
76	217.70	.92600	728.00	.1950-01	.1420-01	.2550-01	.9183	.6710-03	.1211-02	.8200-01	.5950	542.8

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = .0000 BETA = .0000 GRIT = .0600 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
72	5.500	4.951	.1000-01	.0000	.0000	178.2	.1920	745.0	105.7	4.058	2771.	.1521-03
73	5.500	4.946	.2000-01	.0000	.0000	178.1	.1910	745.0	105.7	4.054	2771.	.1519-03
74	5.500	4.958	.1000-01	.0000	.0000	178.2	.1910	744.0	105.6	4.055	2769.	.1522-03
249	5.500	4.923	-.1000-01	.0000	.0000	177.9	.1910	747.0	106.0	4.049	2774.	.1514-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) = J175
72	.8509-07	.4484-01	.1366-01
73	.8511-07	.4483-01	.1366-01
74	.8499-07	.4483-01	.1365-01
249	.8531-07	.4481-01	.1369-01

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
73	.00000	.30000-02	730.00	.4313	.3351	.3984	.9644	.1502-01	.1786-01	2.510	16.97	578.2
73	.00000	.10300-01	731.00	.1154	.9330-01	.1399	.9130	.4184-02	.6273-02	.8150	5.602	550.6
73	.00000	.15000-01	732.00	.5480-01	.4430-01	.6640-01	.9130	.1965-02	.2977-02	.3860	2.624	550 6
73	.00000	.20000-01	733.00	.2860-01	.2310-01	.2730-01	.9609	.1036-02	.1225-02	.1960	1.338	556.3
73	.00000	.25000-01	734.00	.1589	.1258	.1518	.9588	.5637-02	.6807-02	1.005	6.777	565.8
73	.00000	.30000-01	735.00	.4697	.3727	.4686	.9572	.1671-01	.2100-01	2.606	17.46	569.3
73	.00000	.40000-01	737.00	.4895	.3792	.4739	.9557	.1700-01	.2124-01	2.612	18.04	579.9
73	.00000	.45000-01	738.00	.5022	.3889	.4912	.9539	.1743-01	.2202-01	2.679	18.74	580.2
73	.00000	.60000-01	739.00	.3447	.2660	.3473	.9487	.1192-01	.1557-01	1.946	12.85	582.1
73	.00000	.70000-01	740.00	.3159	.2447	.3246	.9454	.1097-01	.1455-01	1.813	12.06	580.0
73	.00000	.80000-01	741.00	.2732	.2128	.2858	.9422	.9537-02	.1281-01	1.607	11.51	576.8
73	.00000	.10000+00	742.00	.2202	.1742	.2374	.9363	.7809-02	.1064-01	1.393	9.210	567.0
73	.00000	.12500	743.00	.1591	.1252	.1787	.9297	.5613-02	.8010-02	.9830	7.062	570.2
73	.00000	.15000	744.00	.1147	.9150-01	.1321	.9240	.4102-02	.5922-02	.7560	5.216	561.1
73	.00000	.17500	745.00	.7170-01	.5770-01	.8420-01	.9194	.2586-02	.3774-02	.4940	3.697	554.4
73	.00000	.20000	746.00	.4390-01	.3550-01	.5230-01	.9158	.1593-02	.2343-02	.3120	2.229	549.4

(IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F21)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
73	.00000	.21500	747.00	.3570-01	.2890-01	.4280-01	.9143	.1298-02	.1918-02	.2560	1.775	547.9
73	.00000	.23000	748.00	.2660-01	.2160-01	.3210-01	.9133	.9678-03	.1439-02	.1910	1.411	547.9
73	.00000	.24000	749.00	.2230-01	.1810-01	.2700-01	.9130	.8121-03	.1209-02	.1600	1.209	547.9
73	.00000	.25000	750.00	.9700-02	.7900-02	.1170-01	.9130	.3520-03	.5231-03	.7000-01	.5650	547.0
73	.00000	.30000	751.00	.2440-01	.1980-01	.2950-01	.9130	.8886-03	.1323-02	.1760	1.152	547.7
73	.00000	.35000	752.00	.3360-01	.2730-01	.4060-01	.9130	.1223-02	.1819-02	.2420	1.529	547.4
73	.00000	.40000	753.00	.3490-01	.2830-01	.4230-01	.9130	.1267-02	.1894-02	.2480	1.592	549.6
73	.00000	.50000	754.00	.3010-01	.2400-01	.3690-01	.9130	.1077-02	.1653-02	.2010	1.304	559.2
73	.00000	.60000	755.00	.3650-01	.2930-01	.4450-01	.9130	.1316-02	.1997-02	.2500	1.596	555.2
73	.00000	.70000	756.00	.2680-01	.2140-01	.3290-01	.9130	.9605-03	.1474-02	.1790	1.172	559.3
73	.00000	.80000	757.00	.1680-01	.1350-01	.2040-01	.9130	.6063-03	.9124-03	.1170	.7320	552.0
73	.00000	.90000	758.00	.9700-02	.7900-02	.1180-01	.9130	.3534-03	.5267-03	.7000-01	.4500	548.2
73	55.000	.22000	759.00	.3290-01	.2680-01	.3940-01	.9139	.1202-02	.1766-02	.2420	1.799	544.3
73	55.000	.25000	760.00	.1260-01	.1030-01	.1520-01	.9130	.4603-03	.6798-03	.9200-01	.7250	544.4
73	55.000	.27000	761.00	.1310-01	.1070-01	.1580-01	.9130	.4778-03	.7091-03	.9500-01	.7070	546.5
73	55.000	.30000	762.00	.2500-01	.2110-01	.3110-01	.9130	.9448-03	.1395-02	.1900	1.143	544.4
73	55.000	.32000	763.00	.3230-01	.2630-01	.3880-01	.9130	.1179-02	.1738-02	.2380	1.410	543.6
73	55.000	.34000	764.00	.3610-01	.2940-01	.4330-01	.9130	.1319-02	.1943-02	.2660	1.581	543.5
73	55.000	.36000	765.00	.3570-01	.2910-01	.4290-01	.9130	.1306-02	.1923-02	.2640	1.590	543.2
73	55.000	.38000	766.00	.3510-01	.2860-01	.4220-01	.9130	.1284-02	.1891-02	.2590	1.579	543.3
73	55.000	.40000	767.00	.3420-01	.2790-01	.4110-01	.9130	.1251-02	.1840-02	.2530	1.587	542.8
73	67.500	.23000	768.00	.3140-01	.2560-01	.3770-01	.9133	.1146-02	.1688-02	.2310	1.721	543.9
73	67.500	.25000	769.00	.1300-01	.1060-01	.1570-01	.9130	.4762-03	.7018-03	.9600-01	.7480	543.6
73	67.500	.27000	770.00	.1690-01	.1370-01	.2040-01	.9130	.6160-03	.9122-03	.1230	.8970	545.7
73	67.500	.29000	771.00	.1880-01	.1530-01	.2260-01	.9130	.6873-03	.1015-02	.1380	.8570	544.4
73	67.500	.30000	772.00	.2660-01	.2170-01	.3200-01	.9130	.9712-03	.1434-02	.1950	1.195	544.3
73	67.500	.31000	773.00	.3050-01	.2480-01	.3660-01	.9130	.1114-02	.1643-02	.2240	1.362	543.9
73	67.500	.32000	774.00	.3270-01	.2670-01	.3930-01	.9130	.1197-02	.1762-02	.2420	1.460	542.9
73	67.500	.32500	775.00	.3370-01	.2750-01	.4050-01	.9130	.1234-02	.1814-02	.2500	1.510	542.7
73	67.500	.33000	776.00	.3450-01	.2810-01	.4140-01	.9130	.1261-02	.1854-02	.2550	1.543	542.8
73	67.500	.33500	777.00	.3500-01	.2860-01	.4200-01	.9130	.1282-02	.1884-02	.2600	1.575	542.5
73	67.500	.34000	778.00	.3650-01	.2980-01	.4380-01	.9130	.1334-02	.1962-02	.2700	1.637	542.7
73	67.500	.34500	779.00	.3770-01	.3080-01	.4530-01	.9130	.1380-02	.2030-02	.2790	1.697	542.8
73	67.500	.35000	780.00	.3620-01	.2960-01	.4340-01	.9130	.1325-02	.1947-02	.2690	1.637	542.5
73	67.500	.35500	781.00	.3490-01	.2850-01	.4190-01	.9130	.1277-02	.1878-02	.2590	1.582	542.5
73	67.500	.36000	782.00	.3750-01	.3060-01	.4500-01	.9130	.1371-02	.2013-02	.2780	1.696	542.8
73	67.500	.36500	783.00	.3470-01	.2840-01	.4170-01	.9130	.1271-02	.1867-02	.2580	1.572	542.3
73	67.500	.37000	784.00	.3490-01	.2850-01	.4190-01	.9130	.1278-02	.1877-02	.2590	1.589	542.2
73	67.500	.37500	785.00	.3230-01	.2640-01	.3870-01	.9130	.1182-02	.1737-02	.2400	1.480	542.5
73	67.500	.38000	786.00	.3310-01	.2700-01	.3970-01	.9130	.1210-02	.1779-02	.2450	1.520	542.5
73	67.500	.39000	787.00	.3690-01	.3010-01	.4430-01	.9130	.1350-02	.1987-02	.2730	1.697	543.0
73	67.500	.40000	788.00	.3230-01	.2640-01	.3880-01	.9130	.1182-02	.1740-02	.2390	1.498	543.0
74	67.500	.50000	789.00	.3140-01	.2550-01	.3800-01	.9130	.1143-02	.1703-02	.2250	1.445	548.1

(IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
249	67.500	.60000	790.00	.8200-01	.5060-01	.9830-01	.9293	.3248-02	.5447-02	.3870	2.523	561.8
249	67.500	.70000	791.00	.8800-01	.6080-01	.1079	.9293	.3371-02	.5984-02	.3720	2.595	570.7
249	67.500	.80000	792.00	.9450-01	.6590-01	.1153	.9293	.3652-02	.6389-02	.4110	2.552	569.6
249	67.500	.90000	793.00	.6470-01	.4280-01	.8210-01	.9293	.2373-02	.4553-02	.2390	1.514	580.4
249	78.000	.27000	794.00	.7020-01	.4960-01	.8500-01	.9290	.2750-02	.4712-02	.3190	2.256	565.0
249	78.000	.29000	795.00	.1090	.7640-01	.1328	.9290	.4235-02	.7364-02	.4820	2.938	567.3
74	78.000	.30000	796.00	.2880-01	.2350-01	.3460-01	.9130	.1051-02	.1551-02	.2110	1.283	543.2
74	78.000	.31000	797.00	.3090-01	.2520-01	.3710-01	.9130	.1128-02	.1663-02	.2270	1.381	542.8
74	78.000	.32000	798.00	.3250-01	.2650-01	.3900-01	.9130	.1188-02	.1749-02	.2400	1.450	542.3
74	78.000	.32500	799.00	.3440-01	.2810-01	.4140-01	.9130	.1259-02	.1854-02	.2540	1.541	542.3
74	78.000	.33000	800.00	.3390-01	.2770-01	.4070-01	.9130	.1241-02	.1825-02	.2510	1.521	542.0
74	78.000	.33500	801.00	.3570-01	.2910-01	.4290-01	.9130	.1305-02	.1923-02	.2640	1.598	542.4
74	78.000	.34000	802.00	.3420-01	.2790-01	.4110-01	.9130	.1252-02	.1841-02	.2530	1.535	541.9
74	78.000	.34500	803.00	.3550-01	.2890-01	.4260-01	.9130	.1297-02	.1908-02	.2620	1.594	542.0
74	78.000	.35000	804.00	.3490-01	.2850-01	.4190-01	.9130	.1276-02	.1877-02	.2580	1.568	542.0
74	78.000	.35500	805.00	.3750-01	.3060-01	.4510-01	.9130	.1373-02	.2020-02	.2780	1.688	541.9
74	78.000	.36000	906.00	.3720-01	.3040-01	.4460-01	.9130	.1362-02	.1999-02	.2760	1.685	541.3
74	78.000	.35500	807.00	.3520-01	.2870-01	.4220-01	.9130	.1286-02	.1892-02	.2600	1.588	542.1
74	78.000	.37000	808.00	.3610-01	.2950-01	.4330-01	.9130	.1320-02	.1943-02	.2670	1.635	542.1
74	78.000	.37500	809.00	.3520-01	.2870-01	.4230-01	.9130	.1287-02	.1895-02	.2600	1.591	542.4
74	78.000	.38000	810.00	.3190-01	.2600-01	.3830-01	.9130	.1164-02	.1715-02	.2350	1.447	542.5
74	78.000	.38000	811.00	.3250-01	.2650-01	.3910-01	.9130	.1190-02	.1752-02	.2400	1.492	542.5
74	78.000	.40000	812.00	.3450-01	.2820-01	.4150-01	.9130	.1263-02	.1860-02	.2540	1.572	542.7
249	90.000	.40000-01	985.00	.4967	.3831	.4807	.9556	.1717-01	.2154-01	2.804	17.91	583.7
249	90.000	.60000-01	986.00	.4469	.3473	.4417	.9521	.1557-01	.1979-01	2.609	16.60	579.4
249	90.000	.80000-01	987.00	.3555	.2723	.3584	.9485	.1220-01	.1606-01	1.949	12.56	587.4
249	90.000	.90000-01	989.00	.2881	.2235	.3018	.9422	.1001-01	.1352-01	1.665	11.51	580.5
249	90.000	.15000	991.00	.1118	.8870-01	.1293	.9240	.3977-02	.5793-02	.7200	5.265	556.0
74	90.000	.20000	913.00	.8990-01	.2430-01	.3580-01	.9133	.1081-02	.1695-02	.2300	1.503	542.6
74	90.000	.24000	814.00	.2680-01	.2140-01	.3160-01	.9130	.9606-03	.1417-02	.1930	1.565	543.3
74	90.000	.27000	816.00	.1300-01	.1560-01	.2310-01	.9130	.7009-03	.1075-02	.1410	1.001	543.6
74	90.000	.29000	817.00	.2150-01	.1750-01	.2590-01	.9130	.7862-03	.1160-02	.1580	.9830	543.3
74	90.000	.30000	818.00	.2780-01	.2270-01	.3350-01	.9130	.1019-02	.1504-02	.2050	1.355	543.1
74	90.000	.31000	819.00	.3050-01	.2490-01	.3670-01	.9130	.1117-02	.1644-02	.2250	1.470	542.4
74	90.000	.32000	820.00	.3250-01	.2640-01	.3890-01	.9130	.1184-02	.1743-02	.2390	1.557	542.4
74	90.000	.32500	821.00	.3400-01	.3010-01	.4430-01	.9130	.1340-02	.1984-02	.2730	1.652	541.8
74	90.000	.33000	822.00	.3300-01	.2750-01	.4050-01	.9130	.1236-02	.1815-02	.2510	1.550	541.4
74	90.000	.33500	823.00	.3480-01	.2880-01	.4170-01	.9130	.1272-02	.1869-02	.2590	1.589	541.4
74	90.000	.34000	824.00	.3030-01	.2960-01	.4350-01	.9130	.1327-02	.1949-02	.2690	1.629	541.4
74	90.000	.34500	825.00	.3260-01	.3060-01	.4500-01	.9130	.1374-02	.2018-02	.2790	1.688	541.5
74	90.000	.35000	826.00	.3840-01	.2970-01	.4350-01	.9130	.1352-02	.1986-02	2700	1.638	541.3
74	90.000	.35000	828.00	.3700-01	.3020-01	.4440-01	.9130	.1353-02	.1986-02	.2740	1.659	541.5
74	90.000	.37000	830.00	.3550-01	.2910-01	.4270-01	.9130	.1302-02	.1912-02	.2640	1.608	541.2

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7721)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
74	90.000	.37500	831.00	.3610-01	.2950-01	.4330-01	.9130	.1323-02	.1942-02	.2690	1.644	541.0
74	90.000	.38000	832.00	.3550-01	.2900-01	.4260-01	.9130	.1300-02	.1910-02	.2640	1.612	541.4
74	90.000	.39000	833.00	.3450-01	.2810-01	.4130-01	.9130	.1262-02	.1853-02	.2560	1.562	541.3
74	90.000	.40000	834.00	.3500-01	.2850-01	.4190-01	.9130	.1279-02	.1880-02	.2590	1.606	541.6
74	90.000	.50000	835.00	.3450-01	.2800-01	.4160-01	.9130	.1255-02	.1865-02	.2480	1.569	546.4
74	90.000	.60000	836.00	.3140-01	.2570-01	.3770-01	.9130	.1151-02	.1692-02	.2330	1.555	541.8
74	90.000	.70000	837.00	.3130-01	.2550-01	.3770-01	.9130	.1143-02	.1690-02	.2290	1.613	544.1
74	90.000	.80000	838.00	.3120-01	.2550-01	.3730-01	.9130	.1143-02	.1672-02	.2340	1.458	539.7
74	90.000	.90000	839.00	.2130-01	.1740-01	.2550-01	.9130	.7788-03	.1143-02	.1590	1.015	540.9
74	112.50	.23000	840.00	.3170-01	.2590-01	.3810-01	.9133	.1160-02	.1706-02	.2340	1.688	542.7
74	112.50	.25000	841.00	.1910-01	.1560-01	.2290-01	.9130	.6971-03	.1025-02	.1410	1.093	542.4
74	112.50	.27000	842.00	.1320-01	.1070-01	.1580-01	.9130	.4814-03	.7102-03	.9700-01	.6700	543.3
74	112.50	.30000	843.00	.3000-01	.2450-01	.3600-01	.9130	.1097-02	.1615-02	.2210	1.320	542.5
74	112.50	.33000	844.00	.3830-01	.3120-01	.4590-01	.9130	.1399-02	.2059-02	.2830	1.709	542.2
74	112.50	.35000	845.00	.3830-01	.3120-01	.4590-01	.9130	.1400-02	.2058-02	.2840	1.743	541.7
74	112.50	.37000	846.00	.3540-01	.2970-01	.4360-01	.9130	.1331-02	.1955 02	.2700	1.667	541.5
74	112.50	.40000	847.00	.3590-01	.2940-01	.4310-01	.9130	.1316-02	.1930-02	.2680	1.673	540.8
74	112.50	.45000	848.00	.3610-01	.2950-01	.4320-01	.9130	.1320-02	.1936-02	.2680	1.690	541.2
74	112.50	.50000	849.00	.3600-01	.2930-01	.4330-01	.9130	.1312-02	.1942-02	.2620	1.697	544.5
74	112.50	.55000	850.00	.3060-01	.2490-01	.3690-01	.9130	.1117-02	.1652-02	.2230	1.494	544.3
74	112.50	.60000	851.00	.3400-01	.2780-01	.4070-01	.9130	.1246-02	.1826-02	.2540	1.707	540.4
74	112.50	.65000	852.00	.3570-01	.2920-01	.4270-01	.9130	.1307-02	.1913-02	.2670	1.825	539.8
74	112.50	.70000	853.00	.3710-01	.3020-01	.4450-01	.9130	.1355-02	.1995-02	.2740	1.924	542.3
74	112.50	.75000	854.00	.3440-01	.2810-01	.4130-01	.9130	.1260-02	.1850-02	.2560	1.564	541.2
74	112.50	.80000	855.00	.3510-01	.2880-01	.4200-01	.9130	.1289-02	.1881-02	.2650	1.733	538.4
74	112.50	.90000	856.00	.1840-01	.1500-01	.2210-01	.9130	.6739-03	.9891-03	.1370	.8910	541.1
74	125.40	.84000	857.00	.2800-01	.2290-01	.3340-01	.9130	.1028-02	.1496-02	.2130	1.322	537.2
74	125.40	.85000	858.00	.2820-01	.2310-01	.3370-01	.9130	.1037-02	.1512-02	.2140	1.336	538.0
74	125.40	.86000	859.00	.2910-01	.2390-01	.3480-01	.9130	.1069-02	.1561-02	.2200	1.385	538.5
74	125.40	.87000	860.00	.2870-01	.2350-01	.3440-01	.9130	.1055-02	.1541-02	.2170	1.367	538.9
74	125.40	.88000	861.00	.3020-01	.2470-01	.3620-01	.9130	.1109-02	.1623-02	.2260	1.428	539.9
74	125.40	.89000	862.00	.2590-01	.2110-01	.3100-01	.9130	.9470-03	.1399-02	.1930	1.222	540.6
74	125.40	.90000	863.00	.2610-01	.2130-01	.3120-01	.9130	.9542-03	.1400-02	.1940	1.238	540.8
74	125.40	.91000	864.00	.1340-01	.1100-01	.1600-01	.9130	.4909-03	.7181-03	.1000+00	.7330	539.6
74	125.40	.92000	865.00	.2080-01	.1700-01	.2500-01	.9130	.7610-03	.1119-02	.1540	1.119	541.8
74	129.30	.80000	866.00	.3110-01	.2650-01	.3700-01	.9130	.1144-02	.1660-02	.2380	1.503	536.3
74	129.30	.81000	867.00	.3060-01	.2610-01	.3650-01	.9130	.1126-02	.1635-02	.2340	1.469	536.5
74	129.30	.82000	868.00	.3050-01	.2600-01	.3630-01	.9130	.1121-02	.1628-02	.2330	1.464	536.4
74	129.30	.83000	869.00	.3020-01	.2480-01	.3610-01	.9130	.1112-02	.1617-02	.2310	1.454	535.7
74	135.00	.40000-01	870.00	.4956	.3862	.4804	.9556	.1731-01	.2153-01	2.917	18.48	575.7
74	135.00	.50000-01	871.00	.4597	.3619	.4546	.9521	.1622-01	.2038-01	2.838	17.94	569.3
74	135.00	.60000-01	872.00	.3549	.2750	.3577	.9486	.1233-01	.1604-01	2.038	13.32	576.9
74	135.00	.70000-01	873.00	.3189	.2482	.3276	.9453	.1113-01	.1469-01	1.867	12.51	576.4

IH41(AEDC V-1A-A4A) T3 NIPPLE NOSE ET (RV7F21)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
74	135.00	.10000+00	875.00	.2261	.1799	.2433	.9363	.8065-02	.1091-01	1.469	9.563	562.1
74	135.00	.15000	876.00	.1220	.9760-01	.1401	.9240	.4376-02	.6281-02	.8160	5.938	557.8
74	135.00	.20000	877.00	.5670-01	.4610-01	.6730-01	.9158	.2067-02	.3015-02	.4120	2.778	545.0
74	135.00	.35000	878.00	.4100-01	.3350-01	.4910-01	.9130	.1500-02	.2203-02	.3040	1.895	541.4
74	135.00	.40000	879.00	.3440-01	.2810-01	.4130-01	.9130	.1259-02	.1850-02	.2550	1.624	541.4
74	135.00	.50000	880.00	.3030-01	.2470-01	.3650-01	.9130	.1106-02	.1637-02	.2210	1.516	544.7
74	135.00	.55000	881.00	.2770-01	.2260-01	.3330-01	.9130	.1011-02	.1495-02	.2020	1.350	544.0
74	135.00	.60000	882.00	.3180-01	.2600-01	.3820-01	.9130	.1166-02	.1710-02	.2380	1.601	540.6
74	135.00	.65000	883.00	.3160-01	.2590-01	.3780-01	.9130	.1161-02	.1696-02	.2380	1.634	538.9
74	135.00	.70000	884.00	.3050-01	.2490-01	.3660-01	.9130	.1117-02	.1639-02	.2270	1.615	541.2
74	135.00	.75000	885.00	.2980-01	.2440-01	.3570-01	.9130	.1093-02	.1601-02	.2230	1.410	540.2
249	135.00	.80000	886.00	.9460-01	.7850-01	.1164	.9278	.3682-02	.6449-02	.4220	2.625	566.4
249	135.00	.84000	887.00	.7590-01	.5980-01	.9460-01	.9130	.2678-02	.4234-02	.0000	.0000	244.7
249	135.00	.85000	888.00	.2680-01	.2160-01	.3270-01	.9130	.9670-03	.1467-02	.1840	1.162	556.4
249	135.00	.87000	890.00	.2680-01	.2150-01	.3280-01	.9130	.9655-03	.1469-02	.1830	1.157	557.4
249	135.00	.88000	891.00	.2730-01	.2190-01	.3340-01	.9130	.9792-03	.1495-02	.1840	1.171	558.7
249	135.00	.89000	892.00	.2690-01	.2150-01	.3290-01	.9130	.9638-03	.1475-02	.1810	1.169	559.4
249	135.00	.91000	894.00	.9300-02	.7400-02	.1140-01	.9130	.3331-03	.5109-03	.6200-01	.4510	560.2
249	135.00	.92600	895.00	.1740-01	.1390-01	.2130-01	.9130	.6216-03	.9549-03	.1160	.8360	560.8
249	135.00	.95000	896.00	.2490-01	.2000-01	.3040-01	.9130	.8943-03	.1363-02	.1690	1.213	558.1
249	142.30	.42000	897.00	.3510-01	.2850-01	.4240-01	.9130	.1275-02	.1900-02	.2520	1.617	549.5
249	142.30	.43500	898.00	.3650-01	.2970-01	.4410-01	.9130	.1329-02	.1976-02	.2640	1.649	548.3
249	142.30	.45000	899.00	.3430-01	.2780-01	.4150-01	.9130	.1247-02	.1859-02	.2470	1.611	549.3
249	142.30	.50000	900.00	.3200-01	.2590-01	.3880-01	.9130	.1159-02	.1741-02	.2250	1.495	552.7
249	142.30	.60000	901.00	.3180-01	.2560-01	.3860-01	.9130	.1149-02	.1729-02	.2230	1.474	553.2
249	142.30	.70000	902.00	.3100-01	.2490-01	.3780-01	.9130	.1115-02	.1695-02	.2120	1.438	557.1
249	142.30	.80000	903.00	.2940-01	.2360-01	.3590-01	.9130	.1059-02	.1608-02	.2010	1.274	556.8
249	142.30	.87000	904.00	.3170-01	.2550-01	.3880-01	.9130	.1141-02	.1737-02	.2160	1.358	557.7
249	154.98	.42000	905.00	.3620-01	.2940-01	.4380-01	.9130	.1317-02	.1961-02	.2610	1.679	549.1
249	154.98	.43500	906.00	.3430-01	.2780-01	.4150-01	.9130	.1247-02	.1858-02	.2460	1.597	549.3
249	154.98	.45000	907.00	.3410-01	.2770-01	.4120-01	.9130	.1239-02	.1848-02	.2450	1.594	549.6
249	154.98	.50000	908.00	.3050-01	.2460-01	.3700-01	.9130	.1103-02	.1658-02	.2140	1.527	552.9
249	154.98	.93500	913.00	.2110-01	.1690-01	.2600-01	.9130	.7576-03	.1163-02	.1410	1.020	560.6
249	154.98	.9+500	914.00	.2060-01	.1650-01	.2520-01	.9130	.7376-03	.1129-02	.1380	.9890	559.6
249	157.50	.70000-01	918.00	.3155	.2427	.3245	.9454	.1088-01	.1454-01	1.761	12.01	585.1
249	157.50	.80000-01	919.00	.2896	.2243	.3034	.9422	.1005-01	.1360-01	1.666	11.17	581.3
249	157.50	.10000+00	920.00	.2231	.1755	.2410	.9363	.7866-02	.1080-01	1.377	9.087	571.9
249	157.50	.20000	922.00	.5780-01	.4570-01	.6890-01	.9158	.2093-02	.3088-02	.4090	2.715	551.8
249	157.50	.42000	923.00	.3310-01	.2690-01	.4000-01	.9130	.1204-02	.1791-02	.2390	1.556	548.7
249	157.50	.43500	924.00	.3210-01	.2600-01	.3870-01	.9130	.1167-02	.1733-02	.2320	1.517	548.2
249	157.50	.45000	925.00	.3180-01	.2590-01	.3840-01	.9130	.1156-02	.1720-02	.2290	1.513	548.6
249	157.50	.85000	926.00	.2510-01	.2020-01	.3070-01	.9130	.9038-03	.1377-02	.1710	1.099	558.0
249	157.50	.86000	927.00	.2370-01	.1900-01	.2900-01	.9130	.8507-03	.1299-02	.1600	1.033	558.7

DATE 03 JUN 75

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F21)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
249	157.50	.87000	928.00	.2430-01	.1950-01	.2980-01	.9130	.8726-03	.1333-02	.1640	1.061	559.0
249	157.50	.88000	929.00	.2310-01	.1850-01	.2830-01	.9130	.8278-03	.1268-02	.1550	1.007	559.9
249	157.50	.89000	930.00	.2410-01	.2020-01	.3110-01	.9130	.9054-03	.1392-02	.1680	1.101	561.0
249	157.50	.90000	931.00	.1870-01	.1490-01	.2290-01	.9130	.6676-03	.1028-02	.1240	.8280	561.6
249	157.50	.91000	932.00	.9100-02	.7200-02	.1120-01	.9130	.3247-03	.5006-03	.6000-01	.4360	562.0
249	157.50	.92600	933.00	.1460-01	.1170-01	.1800-01	.9130	.5237-03	.8072-03	.9700-01	.7020	561.9
249	163.12	.41500	934.00	.3590-01	.2920-01	.4330-01	.9130	.1309-02	.1941-02	.2610	1.693	547.5
249	163.12	.42000	935.00	.3290-01	.2670-01	.3980-01	9130	.1197-02	.1782-02	.2370	1.551	548.9
249	163.12	.43000	937.00	.3360-01	.2730-01	.4060-01	.9130	.1223-02	.1818-02	.2430	1.591	548.6
249	163.12	.44000	938.00	.3350-01	.2720-01	.4050-01	.9130	.1218-02	.1813-02	.2410	1.577	548.9
249	163.12	.44500	939.00	.3120-01	.2530-01	.3770-01	.9130	.1135-02	.1689-02	.2250	1.490	549.1
249	163.12	.45000	940.00	.3250-01	.2640-01	.3930-01	.9130	.1182-02	.1760-02	.2340	1.552	549.1
249	163.12	.50000	941.00	.3180-01	.2570-01	.3860-01	.9130	.1153-02	.1731-02	.2240	1.518	552.4
249	163.12	.60000	942.00	.3350-01	.2710-01	.4080-01	.9130	.1212-02	.1827-02	.2340	1.504	553.9
249	163.12	.70000	943.00	.2840-01	.2280-01	.3470-01	.9130	.1024-02	.1555-02	.1950	1.330	556.8
249	163.12	.80000	944.00	.2750-01	.2200-01	.3360-01	.9130	.9877-03	.1506-02	.1860	1.209	558.2
249	168.00	.35000	945.00	.3810-01	.3100-01	.4590-01	.9130	.1390-02	.2059-02	.2780	1.763	546.9
249	168.00	.36000	946.00	.3670-01	.2980-01	.4410-01	.9130	.1337-02	.1977-02	.2670	1.708	546.1
249	168.00	.37000	947.00	.3640-01	.2960-01	.4380-01	.9130	.1325-02	.1964-02	.2650	1.686	547.3
249	168.00	.37500	948.00	.3450-01	.2800-01	.4160-01	.9130	.1257-02	.1863-02	.2510	1.599	547.3
249	168.00	.38500	950.00	.2930-01	.2390-01	.3520-01	.9130	.1069-02	.1579-02	.2150	1.389	545.7
249	168.00	.39000	951.00	.3550-01	.2890-01	.4270-01	.9130	.1293-02	.1916-02	.2590	1.678	546.9
249	168.00	.39500	952.00	.3600-01	.2930-01	.4340-01	.9130	.1314-02	.1947-02	.2630	1.678	547.1
249	168.00	.40000	953.00	.3440-01	.2790-01	.4150-01	.9130	.1252-02	.1858-02	.2490	1.622	547.8
249	168.00	.40500	954.00	.3310-01	.2690-01	.4000-01	.9130	.1206-02	.1791-02	.2400	1.565	548.0
249	168.00	.41000	955.00	.3390-01	.2750-01	.4090-01	.9130	.1233-02	.1832-02	.2450	1.598	548.2
249	168.00	.41500	956.00	.3420-01	.2780-01	.4120-01	.9130	.1244-02	.1848-02	.2470	1.615	548.4
249	168.00	.42000	957.00	.3370-01	.2730-01	.4060-01	.9130	.1225-02	.1821-02	.2430	1.596	548.3
249	168.00	.42500	958.00	.3200-01	.2600-01	.3860-01	.9130	.1163-02	.1730-02	.2310	1.514	548.6
249	168.00	.43000	959.00	.2970-01	.2410-01	.3580-01	.9130	.1079-02	.1606-02	.2140	1.398	548 8
249	168.00	.44000	960.00	.3400-01	.2760-01	.4100-01	.9130	.1236-02	.1837-02	.2450	1.607	548.6
249	168.00	.44500	961.00	.3360-01	.2730-01	.4060-01	.9130	.1221-02	.1819-02	.2420	1.585	549.1
249	168.00	.45500	963.00	.3360-01	.2720-01	.4050-01	.9130	.1220-02	.1817-02	.2420	1.593	549.1
249	168.00	.46000	964.00	.3450-01	.2790-01	.4170-01	.9130	.1252-02	.1867-02	.2470	1.637	549.8
249	168.00	.47000	965.00	.3170-01	.2570-01	.3840-01	.9130	.1152-02	.1719-02	.2270	1.508	550.1
249	168.00	.48000	966.00	.3140-01	.2540-01	.3810-01	.9130	.1140-02	.1706-02	.2230	1.499	551.0
249	168.00	.49000	967.00	.3070-01	.2490-01	.3710-01	.9130	.1114-02	.1662-02	.2200	1.476	549.7
249	168.00	.85000	968.00	.2470-01	.1980-01	.3020-01	.9130	.8861-03	.1352-02	.1670	1.077	558.4
249	168.00	.86000	969.00	.2510-01	.2010-01	.3070-01	.9130	.9002-03	.1376-02	.1690	1.094	559.1
249	168.00	.87000	970.00	.2380-01	.1900-01	.2910-01	.9130	.8536-03	.1306-02	.1600	1.038	559.5
249	168.00	.88000	971.00	.2740-01	.2190-01	.3370-01	.9130	.9825-03	.1509-02	.1830	1.189	560.7
249	168.00	.89000	972.00	.2458-01	.1960-01	.3020-01	.9130	.8780-03	.1353-02	.1630	1.071	561.9
249	168.00	.90000	973.00	.2060-01	.1650-01	.2540-01	.9130	.7391-03	.1137-02	.1370	.9270	561.3

ORIGINAL PAGE IS
OF POOR QUALITY

(IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F21)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
249	168.00	.91000	974.00	.1060-01	.8500-02	.1310-01	.9130	.3807-03	.5855-03	.7100-04	.5120	561.2
249	168.00	.92600	975.00	.1520-01	.1220-01	.1880-01	.9130	.5449-03	.8413-03	.1010	.7230	562.6
249	168.00	.95000	976.00	.2130-01	.1710-01	.2620-01	.9130	.7660-03	.1172-02	.1440	1.028	559.4
249	180.00	.20000-01	982.00	.5860-01	.4720-01	.5570-01	.9608	.2116-02	.2494-02	.4080	2.826	554.2
249	180.00	.25000-01	983.00	.2135	.1695	.2042	.9588	.7594-02	.9150-02	1.374	9.405	566.0
249	180.00	.30000-01	984.00	.5504	.4140	.5257	.9571	.1855 -01	.2356-01	2.797	18.74	596.3
72	180.00	.40000-01	600.00	.4576	.3870	.4822	.9556	.1735-01	.2162-01	2.909	18.42	577.4
72	180.00	.50000-01	601.00	.4375	.3442	.4327	.9521	.1543-01	.1940-01	2.698	17.19	570.3
72	180.00	.60000-01	602.00	.3410	.2640	.3438	.9486	.1184-01	.1541-01	1.953	12.79	580.1
72	180.00	.70000-01	603.00	.3145	.2441	.3232	.9453	.1095-01	.1449-01	1.823	12.25	578.5
72	180.00	.80000-01	604.00	.3081	.2409	.3221	.9422	.1080-01	.1444-01	1.845	11.84	574.2
72	180.00	.10000+00	605.00	.2133	.1687	.2299	.9363	.7566-02	.1031-01	1.350	9.595	566.6
72	180.00	.15000	606.00	.1124	.8980-01	.1294	.9240	.4026-02	.5801-02	.7450	5.381	560.0
72	180.00	.20000	607.00	.5540-01	.4500-01	.6570-01	.9158	.2017-02	.2947-02	.4010	2.616	546.3
72	180.00	.21000	608.00	.4030-01	.3280-01	.4810-01	.9147	.1472-02	.2155-02	.2950	2.043	544.4
72	180.00	.22000	609.00	.3390-01	.2770-01	.4060-01	.9139	.1240-02	.1822-02	.2490	1.855	544.2
72	180.00	.30000	610.00	.1980-01	.1620-01	.2380-01	.9130	.7259-03	.1068-02	.1470	1.008	542.7
72	180.00	.35000	611.00	.3160-01	.2580-01	.3800-01	.9130	.1157-02	.1702-02	.2340	1.564	542.5
72	180.00	.36000	612.00	.3140-01	.2560-01	.3760-01	.9130	.1148-02	.1687-02	.2330	1.571	542.0
72	180.00	.37000	613.00	.3040-01	.2480-01	.3650-01	.9130	.1113-02	.1636-02	.2250	1.519	542.4
72	180.00	.37500	614.00	.3190-01	.2600-01	.3830-01	.9130	.1168-02	.1717-02	.2370	1.594	542.4
72	180.00	.38000	615.00	.3670-01	.2990-01	.4400-01	.9130	.1342-02	1971-02	.2730	1.838	541.8
72	180.00	.38500	616.00	.3380-01	.2760-01	.4050-01	.9130	.1238-02	.1817-02	.2520	1.696	541.8
72	180.00	.39000	617.00	.3310-01	.2700-01	.3970-01	.9130	.1212-02	.1778-02	.2460	1.656	541.7
72	180.00	.39500	618.00	.2820-01	.2300-01	.3380-01	.9130	.1032-02	.1515-02	.2100	1.417	541.8
72	180.00	.40000	619.00	.3020-01	.2470-01	.3620-01	.9130	.1107-02	.1624-02	.2250	1.514	541.5
72	180.00	.40500	620.00	.3300-01	.2690-01	.3950-01	.9130	.1207-02	.1772-02	.2450	1.653	541.8
72	180.00	.41000	621.00	.3480-01	.2840-01	.4170-01	.9130	.1274-02	.1871-02	.2590	1.744	541.9
72	180.00	.41500	622.00	.3470-01	.2830-01	.4160-01	.9130	.1270-02	.1865-02	.2580	1.734	541.8
72	180.00	.42500	624.00	.3630-01	.2960-01	.4360-01	.9130	.1329-02	.1955-02	.2690	1.807	542.6
72	180.00	.43000	625.00	.3360-01	.2740-01	.4030-01	.9130	.1228-02	.1807-02	.2480	1.671	542.9
72	180.00	.44000	626.00	.3210-01	.2620-01	.3860-01	.9130	1175-02	.1729-02	.2380	1.604	542.5
72	180.00	.44500	627.00	.3180-01	.2590-01	.3810-01	.9130	.1163-02	.1710-02	.2350	1.601	542.6
72	180.00	.45000	628.00	.3130-01	.2560-01	.3760-01	.9130	.1146-02	.1687-02	.2320	1.576	542.8
72	180.00	.45500	629.00	.2970-01	.2430-01	.3570-01	.9130	.1088-02	.1600-02	.2200	1.521	542.5
72	180.00	.46000	630.00	.2980-01	.2440-01	.3580-01	.9130	.1092-02	.1606-02	.2210	1.490	542.5
72	180.00	.47000	631.00	.3110-01	.2530-01	.3730-01	.9130	.1136-02	.1674-02	.2290	1.541	543.5
72	180.00	.49000	633.00	.2940-01	.2390-01	.3540-01	.9130	.1074-02	.1586-02	.2150	1.472	544.4
72	180.00	.50000	634.00	.2520-01	.2050-01	.3030-01	.9130	.9180-03	.1358-02	.1840	1.286	545.0
72	180.00	.55000	635.00	.2570-01	.2090-01	.3090-01	.9130	.9355-03	.1386-02	.1860	1.239	545.8
72	180.00	.60000	636.00	.3350-01	.2740-01	.4020-01	.9130	.1227-02	.1804-02	.2490	1.608	542.3
72	180.00	.65000	637.00	.3040-01	.2490-01	.3640-01	.9130	.1115-02	.1634-02	.2280	1.477	540.9
72	180.00	.70000	638.00	.3250-01	.2650-01	.3910-01	.9130	.1190-02	.1752-02	.2400	1.847	543.2

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F21)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
72	180.00	.75000	639.00	.2990-01	.2440-01	.3590-01	.9130	.1093-02	.1609-02	.2210	1.429	542.8
72	180.00	.80000	640.00	.2910-01	.2380-01	.3470-01	.9130	.1067-02	.1558-02	.2190	1.379	539.5
72	180.00	.85000	641.00	.3030-01	.2480-01	.3630-01	.9130	.1113-02	.1627-02	.2290	1.449	539.8
72	180.00	.86000	642.00	.2900-01	.2370-01	.3470-01	.9130	.1062-02	.1555-02	.2170	1.397	540.5
72	180.00	.87000	643.00	.2780-01	.2270-01	.3330-01	.9130	.1018-02	.1493-02	.2070	1.340	541.5
72	180.00	.88000	644.00	.2880-01	.2350-01	.3460-01	.9130	.1056-02	.1552-02	.2140	1.395	542.4
72	180.00	.89000	645.00	.2990-01	.2440-01	.3600-01	.9130	.1095-02	.1612-02	.2210	1.459	543.0
72	180.00	.90000	646.00	.1760-01	.1430-01	.2110-01	.9130	.6428-03	.9455-03	.1300	.8760	542.6
72	180.00	.92600	648.00	.1760-01	.1440-01	.2120-01	.9130	.6441-03	.9520-03	.1290	.9430	544.6
72	180.00	.95000	649.00	.2360-01	.1920-01	.2840-01	.9130	.8611-03	.1274-02	.1720	1.244	545.2
72	191.25	.35000	650.00	.3980-01	.3250-01	.4780-01	.9130	.1457-02	.2144-02	.2940	1.983	543.0
72	191.25	.36000	651.00	.3600-01	.2940-01	.4320-01	.9130	.1316-02	.1938-02	.2660	1.798	542.9
72	191.25	.37000	652.00	.3650-01	.2980-01	.4380-01	.9130	.1335-02	.1965-02	.2700	1.819	542.8
72	191.25	.37500	653.00	.3390-01	.2760-01	.4070-01	.9130	.1239-02	.1824-02	.2510	1.693	542.8
72	191.25	.38000	654.00	.3370-01	.2750-01	.4040-01	.9130	.1233-02	.1814-02	.2500	1.687	542.5
72	191.25	.38500	655.00	.3310-01	.2700-01	.3970-01	.9130	.1212-02	.1782-02	.2450	1.657	542.6
72	191.25	.39000	656.00	.3340-01	.2720-01	.4000-01	.9130	.1221-02	.1795-02	.2470	1.670	542.5
72	191.25	.39500	657.00	.1750-01	.1430-01	.2100-01	.9130	.6396-03	.9417-03	.1290	.8730	543.0
72	191.25	.40000	658.00	.2290-01	.1870-01	.2750-01	.9130	.8379-03	.1232-02	.1700	1.150	542.6
72	191.25	.40500	659.00	.2220-01	.1810-01	.2660-01	.9130	.8107-03	.1193-02	.1640	1.112	542.7
72	191.25	.41000	660.00	.3270-01	.2670-01	.3930-01	.9130	.1198-02	.1761-02	.2430	1.642	542.3
72	191.25	.41500	661.00	.3230-01	.2640-01	.3870-01	.9130	.1182-02	.1735-02	.2400	1.617	541.9
72	191.25	.42000	662.00	.3450-01	.2820-01	.4150-01	.9130	.1264-02	.1860-02	.2560	1.727	542.8
72	191.25	.42500	663.00	.3440-01	.2810-01	.4130-01	.9130	.1260-02	.1853-02	.2550	1.729	542.6
72	191.25	.43000	664.00	.3410-01	.2780-01	.4090-01	.9130	.1247-02	.1835-02	.2520	1.725	542.8
72	191.25	.44000	665.00	.3320-01	.2710-01	.3990-01	.9130	.1215-02	.1789-02	.2450	1.668	543.1
72	191.25	.45000	666.00	.3340-01	.2720-01	.4010-01	.9130	.1222-02	.1800-02	.2460	1.675	543.3
72	191.25	.45500	667.00	.3220-01	.2630-01	.3860-01	.9130	.1176-02	.1732-02	.2370	1.613	543.3
72	191.25	.46000	668.00	.3280-01	.2670-01	.3940-01	.9130	.1199-02	.1766-02	.2420	1.648	543.4
72	191.25	.47000	669.00	.3300-01	.2690-01	.3960-01	.9130	.1205-02	.1775-02	.2430	1.661	543.4
72	191.25	.48000	670.00	.3190-01	.2600-01	.3830-01	.9130	.1164-02	.1717-02	.2340	1.602	543.7
72	191.25	.49000	671.00	.3170-01	.2580-01	.3820-01	.9130	.1156-02	.1713-02	.2310	1.569	545.7
72	191.25	.50000	672.00	.3070-01	.2500-01	.3700-01	.9130	.1119-02	.1659-02	.2230	1.549	546.0
72	191.25	.60000	673.00	.3360-01	.2740-01	.4040-01	.9130	.1230-02	.1812-02	.2480	1.591	543.5
72	191.25	.70000	674.00	.3140-01	.2560-01	.3780-01	.9130	.1147-02	.1693-02	.2300	1.569	544.2
72	191.25	.85000	676.00	.2700-01	.2210-01	.3230-01	.9130	.9904-03	.1449-02	.2030	1.287	540.1
72	191.25	.86000	677.00	.2540-01	.2080-01	.3040-01	.9130	.9310-03	.1364-02	.1900	1.219	540.9
72	191.25	.87000	678.00	.2930-01	.2400-01	.3510-01	.9130	.1074-02	.1576-02	.2190	1.413	541.6
72	191.25	.88000	679.00	.2910-01	.2380-01	.3500-01	.9130	.1066-02	.1568-02	.2160	1.410	542.7
72	191.25	.89000	680.00	.2900-01	.2370-01	.3490-01	.9130	.1061-02	.1565-02	.2130	1.415	543.9
72	191.25	.90000	681.00	.2130-01	.1730-01	.2560-01	.9130	.7760-03	.1146-02	.1560	1.051	544.4
72	191.25	.91000	682.00	.6500-02	.5300-02	.7800-02	.9130	.2375-03	.3496-03	.4800-01	.3510	543.0
72	191.25	.92600	683.00	.1820-01	.1480-01	.2190-01	.9130	.6631-03	.9803-03	.1330	.9730	544.7

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
72	191.25	.95000	684.00	.2320-01	.1880-01	.2790-01	.9130	.8451-03	.1250-02	.1690	1.222	545.0
72	197.00	.33000	685.00	.3470-01	.2830-01	.4170-01	.9130	.1269-02	.1869-02	.2570	1.728	543.0
72	197.00	.34000	686.00	.3690-01	.3010-01	.4430-01	.9130	.1350-02	.1988-02	.2730	1.837	543.1
72	197.00	.35000	687.00	.3870-01	.3160-01	.4650-01	.9130	.1416-02	.2084-02	.2860	1.928	542.8
72	197.00	.36000	688.00	.3640-01	.2970-01	.4370-01	.9130	.1332-02	.1960-02	.2690	1.814	542.8
72	197.00	.37000	689.00	.3700-01	.3020-01	.4450-01	.9130	.1355-02	.1995-02	.2740	1.844	543.0
72	197.00	.37500	690.00	.3850-01	.3140-01	.4620-01	.9130	.1407-02	.2070-02	.2850	1.923	542.7
72	197.00	.50000	691.00	.3190-01	.2590-01	.3840-01	.9130	.1162-02	.1723-02	.2310	1.557	545.9
72	197.00	.60000	692.00	.3120-01	.2550-01	.3750-01	.9130	.1141-02	.1680-02	.2310	1.491	542.9
72	197.00	.70000	693.00	.2850-01	.2330-01	.3420-01	.9130	.1042-02	.1533-02	.2110	1.435	542.5
72	197.00	.80000	694.00	.3290-01	.2690-01	.3930-01	.9130	.1206-02	.1762-02	.2480	1.554	539.5
72	197.00	.87000	695.00	.3080-01	.2510-01	.3690-01	.9130	.1126-02	.1654-02	.2290	1.461	542.0
72	197.00	.92600	696.00	.1660-01	.1350-01	.2000-01	.9130	.6039-03	.8947-03	.1200	.8820	545.7
249	209.80	.15000-01	697.00	.2561	.1852	.3071	.9283	.1024-01	.1698-01	.0000	.0000	539.9
73	209.80	.30000-01	698.00	.5277	.4064	.5063	.9571	.1822-01	.2270-01	2.954	19.73	583.2
73	209.80	.50000-01	699.00	.4734	.3726	.4683	.9520	.1670-01	.2099-01	2.923	18.36	570.3
73	209.80	.70000-01	700.00	.3172	.2473	.3258	.9453	.1108-01	.1460-01	1.874	12.49	576.2
73	209.80	.10000+00	701.00	.2360	.1869	.2545	.9362	.8377-02	.1141-01	1.499	9.460	566.4
73	209.80	.15000	702.00	.1092	.8740-01	.1256	.9240	.3916-02	.5631-02	.7290	5.180	559.2
73	209.80	.20000	703.00	.5420-01	.4400-01	.6430-01	.9158	.1973-02	.2883-02	.3920	2.614	546.4
73	209.80	.30000	704.00	.2700-01	.2200-01	.3250-01	.9130	.9873-03	.1457-02	.1990	1.409	544.2
73	209.80	.35000	705.00	.3540-01	.2890-01	.4260-01	.9130	.1296-02	.1907-02	.2620	1.799	543.0
73	209.80	.37500	706.00	.3300-01	.2690-01	.3960-01	.9130	.1207-02	.1774-02	.2450	1.685	542.4
73	209.80	.50000	707.00	.3050-01	.2480-01	.3680-01	.9130	.1114-02	.1649-02	.2220	1.523	545.5
73	209.80	.60000	708.00	.3290-01	.2690-01	.3940-01	.9130	.1206-02	.1766-02	.2470	1.577	540.8
73	209.80	.70000	709.00	.3150-01	.2570-01	.3780-01	.9130	.1152-02	.1695-02	.2330	1.491	542.7
73	209.80	.80000	710.00	.3210-01	.2630-01	.3840-01	.9130	.1180-02	.1722-02	.2430	1.521	539.2
73	209.80	.87000	711.00	.3390-01	.2770-01	.4070-01	.9130	.1241-02	.1823-02	.2520	1.599	542.0
73	209.80	.92600	712.00	.1610-01	.1310-01	.1940-01	.9130	.5873-03	.8688-03	.1180	.8550	545.1
73	217.70	.30000-01	714.00	.5056	.3886	.4849	.9571	.1742-01	.2174-01	2.807	18.74	584.2
73	217.70	.50000-01	715.00	.4593	.3615	.4543	.9520	.1620-01	.2036-01	2.836	18.29	570.3
73	217.70	.70000-01	716.00	.3182	.2472	.3270	.9453	.1108-01	.1466-01	1.852	12.44	578.2
73	217.70	.10000+00	717.00	.2247	.1781	.2421	.9362	.7982-02	.1085-01	1.433	9.209	565.7
73	217.70	.15000	718.00	.1110	.8880-01	.1277	.9240	.3979-02	.5724-02	.7400	5.379	559.4
73	217.70	.20000	719.00	.5300-01	.4310-01	.6280-01	.9158	.1931-02	.2816-02	.3860	2.605	545.4
73	217.70	.30000	720.00	.2670-01	.2170-01	.3210-01	.9130	.9741-03	.1433-02	.1960	1.402	544.3
73	217.70	.35000	721.00	.3500-01	.2850-01	.4200-01	.9130	.1279-02	.1882-02	.2590	1.798	542.9
73	217.70	.37500	722.00	.3430-01	.2800-01	.4120-01	.9130	.1254-02	.1845-02	.2540	1.764	542.7
73	217.70	.50000	723.00	.3140-01	.2550-01	.3780-01	.9130	.1145-02	.1695-02	.2290	1.583	545.3
73	217.70	.60000	724.00	.3320-01	.2710-01	.3980-01	.9130	.1217-02	.1782-02	.2490	1.594	540.9
73	217.70	.70000	725.00	.3170-01	.2590-01	.3800-01	.9130	.1160-02	.1705-02	.2350	1.497	542.6
73	217.70	.80000	726.00	.3220-01	.2640-01	.3850-01	.9130	.1182-02	.1726-02	.2440	1.537	539.3
73	217.70	.87000	727.00	.3120-01	.2550-01	.3740-01	.9130	.1142-02	.1675-02	.2330	1.492	541.5

DATE 03 JUN 76

AEDC V4'4-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F21)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
73	217.70	.92600	728.00	.1840-01	.1500-01	.2210-01	.9130	.6710-03	.9905-03	.1350	.9820	544.3

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = 5.000 BETA = .0000 GRIT = .0000 RN/L = 5.000

•••TEST CONDITIONS•••

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
78	4.520	5.094	5.000	.0000	.0000	97.10	.3270	661.0	130.0	4.681	2526.	.2112-03
79	4.520	5.082	5.000	.0000	.0000	97.20	.3280	663.0	130.3	4.686	2529.	.2109-03
80	4.520	5.060	5.020	.0000	.0000	97.10	.3270	664.0	130.6	4.680	2531.	.2102-03
275	4.520	4.956	4.990	.0000	0000	94.90	.3200	664.0	130.5	4.576	2930.	.2058-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
78	.1047-06	.4735-01	.1136-01
79	.1049-06	.4739-01	.1137-01
80	.1052-06	.4738-01	.1140-01
275	.1050-06	.4684-01	.1152-01

•••TEST DATA•••

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
79	.00000	.30000-02	730.00	.4538	.2958	.3589	.9747	.1402-01	.1701-01	1.334	9.066	567.7
79	.00000	.10300-01	731.00	.1633	.1160	.2176	.9193	.5498-02	.1031-01	.6300	4.333	548.4
79	.00000	.15000-01	732.00	.1343	.9500-01	.1738	.9193	.4504-02	.8521-02	.5110	3.471	549.5
79	.00000	.20000-01	733.00	.2476	.1683	.2064	.9712	.7974-02	.9784-02	.8250	5.626	559.5
79	.00000	.25000-01	734.00	.6338	.3740	.5009	.9691	.1772-01	.2374-01	1.433	9.577	582.1
79	.00000	.30000-01	735.00	.7206	.4336	.5858	.9674	.2055-01	.2776-01	1.710	11.51	579.7
79	.00000	.40000-01	737.00	.4738	.3108	.4064	.9658	.1473-01	.1926-01	1.419	9.168	566.6
79	.00000	.45000-01	738.00	.4622	.3072	.4051	.9640	.1456-01	.1920-01	1.439	9.446	564.1
79	.00000	.60000-01	739.00	.4485	.2883	.4092	.9586	.1366-01	.1939-01	1.268	8.422	570.1
79	.00000	.70000-01	740.00	.4112	.2674	.3894	.9552	.1267-01	.1845-01	1.201	8.034	568.1
79	.00000	.80000-01	741.00	.3591	.2348	.3520	.9519	.1113-01	.1668-01	1.066	7.670	567.1
79	.00000	.10000+00	742.00	.3057	.2075	.3186	.9457	.9835-02	.1510-01	1.015	6.739	559.7
79	.00000	.12500	743.00	.2505	.1684	.2814	.9388	.7979-02	.1333-01	.8060	5.819	561.8
79	.00000	.15000	744.00	.1746	.1210	.2062	.9327	.5735-02	.9772-02	.6190	4.298	554.9
79	.00000	.17500	745.00	.1199	.8470-01	.1473	.9276	.4012-02	.6981-02	.4530	3.396	550.1
79	.00000	.20000	746.00	.5730-01	.4080-01	.7280-01	.9236	.1935-02	.3452-02	.2230	1.595	547.6

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
79	.00000	.21500	747.00	.6320-01	.4530-01	.8140-01	.9216	.2147-02	.3856-02	.2520	1.745	545.7
79	.00000	.23000	748.00	.4660-01	.3330-01	.6100-01	.9201	.1580-02	.2892-02	.1840	1.362	546.2
79	.00000	.24000	749.00	.5020-01	.3590-01	.6630-01	.9193	.1701-02	.3142-02	.1980	1.496	546.3
79	.00000	.25000	750.00	.2600-01	.1860-01	.3420-01	.9193	.8822-03	.1622-02	.1030	.8370	545.7
79	.00000	.30000	751.00	.5940-01	.4250-01	.7840-01	.9193	.2016-02	.3714-02	.2360	1.548	546.0
79	.00000	.35000	752.00	.5720-01	.4140-01	.7460-01	.9193	.1962-02	.3536-02	.2360	1.493	542.8
79	.00000	.40000	753.00	.5450-01	.3950-01	.7110-01	.9193	.1871-02	.3371-02	.2250	1.448	542.7
79	.00000	.50000	754.00	.5170-01	.3710-01	.6810-01	.9193	.1758-02	.3226-02	.2070	1.353	545.4
79	.00000	.60000	755.00	.6370-01	.4630-01	.8260-01	.9193	.2196-02	.3914-02	.2670	1.719	541.1
79	.00000	.70000	756.00	.5950-01	.4270-01	.7850-01	.9193	.2023-02	.3718-02	.2370	1.567	545.7
79	.00000	.80000	757.00	.4420-01	.3200-01	.5770-01	.9193	.1518-02	.2736-02	.1820	1.145	542.8
79	.00000	.90000	758.00	.2200-01	.1580-01	.2890-01	.9193	.7481-03	.1368-02	.8800-01	.5710	545.0
79	55.000	.22000	759.00	.5010-01	.3650-01	.6460-01	.9199	.1728-02	.3061-02	.2110	1.572	541.0
79	55.000	.25000	760.00	.2500-01	.1820-01	.3280-01	.9187	.8606-03	.1553-02	.1040	.8170	542.0
79	55.000	.27000	761.00	.3310-01	.2380-01	.4380-01	.9187	.1130-02	.2076-02	.1340	.9960	544.6
79	55.000	.30000	762.00	.5260-01	.3820-01	.6880-01	.9187	.1811-02	.3261-02	.2200	1.324	541.7
79	55.000	.32000	763.00	.5550-01	.4050-01	.7220-01	.9187	.1920-02	.3422-02	.2360	1.401	540.0
79	55.000	.34000	764.00	.4890-01	.3580-01	.6340-01	.9187	.1697-02	.3007-02	.2100	1.250	539.2
79	55.000	.36000	765.00	.5010-01	.3670-01	.6490-01	.9187	.1740-02	.3075-02	.2160	1.305	538.7
79	55.000	.38000	766.00	.4890-01	.3580-01	.6330-01	.9187	.1699-02	.3001-02	.2110	1.288	538.7
79	55.000	.40000	767.00	.4670-01	.3430-01	.6040-01	.9187	.1626-02	.2863-02	.2030	1.273	538.1
79	67.500	.23000	768.00	.5370-01	.3920-01	.6970-01	.9189	.1859-02	.3302-02	.2290	1.708	539.8
79	67.500	.25000	769.00	.2380-01	.1730-01	.3110-01	.9185	.8208-03	.1472-02	.1000+00	.7820	540.8
79	67.500	.27000	770.00	.3920-01	.2830-01	.5160-01	.9185	.1342-02	.2447-02	.1600	1.173	54[illegible].3
79	67.500	.29000	771.00	.3630-01	.2630-01	.4760-01	.9185	.1247-02	.2254-02	.1510	.9370	541.9
79	67.500	.30000	772.00	.4940-01	.3590-01	.6480-01	.9185	.1703-02	.3071-02	.2070	1.266	541.6
79	67.500	.31000	773.00	.5130-01	.3790-01	.6780-01	.9185	.1794-02	.3214-02	.2200	1.335	540.6
79	67.500	.32000	774.00	.5060-01	.3710-01	.6570-01	.9185	.1757-02	.3112-02	.2180	1.316	538.8
79	67.500	.32500	775.00	.5180-01	.3800-01	.6720-01	.9185	.1799-02	.3184-02	.2230	1.353	538.7
79	67.500	.33000	776.00	.4940-01	.3620-01	.6410-01	.9185	.1716-02	.3039-02	.2130	1.293	538.8
79	67.500	.33500	777.00	.4840-01	.3560-01	.6280-01	.9185	.1685-02	.2975-02	.2100	1.275	539.3
79	67.500	.34000	778.00	.4850-01	.3560-01	.6290-01	.9185	.1687-02	.2980-02	.2100	1.275	538.4
79	67.500	.34500	779.00	.4920-01	.3610-01	.6380-01	.9185	.1713-02	.3022-02	.2140	1.300	538.2
79	67.500	.35000	780.00	.4700-01	.3450-01	.6080-01	.9185	.1635-02	.2882-02	.2040	1.247	538.0
79	67.500	.35500	781.00	.4260-01	.3130-01	.5520-01	.9185	.1485-02	.2617-02	.1850	1.135	538.0
79	67.500	.36000	782.00	.4640-01	.3410-01	.6010-01	.9185	.1615-02	.2847-02	.2020	1.236	538.0
79	67.500	.36500	783.00	.4430-01	.3250-01	.5730-01	.9185	.1543-02	.2714-02	.1930	1.180	537.7
79	67.500	.37000	784.00	.4660-01	.3430-01	.6030-01	.9185	.1624-02	.2856-02	.2030	1.249	537.7
79	67.500	.37500	785.00	.4090-01	.3000-01	.5300-01	.9185	.1422-02	.2513-02	.1770	1.095	538.4
79	67.500	.38000	786.00	.4310-01	.3170-01	.5580-01	.9185	.1501-02	.2645-02	.1870	1.164	538.0
79	67.500	.39000	787.00	.4240-01	.3110-01	.5500-01	.9185	.1476-02	.2605-02	.1840	1.145	538.3
79	67.500	.40000	788.00	.3120-01	.2280-01	.4040-01	.9185	.1082-02	.1917-02	.1340	.8430	538.8
80	67.500	.50000	789.00	.4090-01	.2980-01	.5360-01	.9185	.1410-02	.2539-02	.1710	1.101	541.4

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
80	67.500	.60000	790.00	.4370-01	.3210-01	.5650-01	.9185	.1522-02	.2676-02	.1910	1.258	537.6
80	67.500	.70000	791.00	.4280-01	.3110-01	.5600-01	.9185	.1476-02	.2652-02	.1800	1.273	541.1
80	67.500	.80000	792.00	.4030-01	.2980-01	.5160-01	.9185	.1414-02	.2446-02	.1810	1.144	534.9
80	67.500	.90000	793.00	.2520-01	.1850-01	.3250-01	.9185	.8767-03	.1542-02	.1100	.7110	537.6
80	78.000	.27000	794.00	.3160-01	.2280-01	.4160-01	.9184	.1082-02	.1972-02	.1300	.9280	542.9
80	78.000	.29000	795.00	.1720-01	.1250-01	.2250-01	.9184	.5910-03	.1068-02	.7200-01	.4420	541.8
80	78.000	.30000	796.00	.4480-01	.3300-01	.5800-01	.9184	.1563-02	.2748-02	.1970	1.196	538.5
80	78.000	.31000	797.00	.4660-01	.3440-01	.6010-01	.9184	.1628-02	.2847-02	.2060	1.256	537.6
80	78.000	.32000	798.00	.4840-01	.3580-01	.6230-01	.9184	.1695-02	.2951-02	.2160	1.309	536.9
80	78.000	.32500	799.00	.4900-01	.3630-01	.6310-01	.9184	.1718-02	.2988-02	.2190	1.333	536.7
80	78.000	.33000	800.00	.4780-01	.3540-01	.6140-01	.9184	.1676-02	.2908-02	.2150	1.304	536.3
80	78.000	.33500	801.00	.5090-01	.3770-01	.6540-01	.9184	.1786-02	.3100-02	.2280	1.389	536.4
80	78.000	.34000	802.00	.4440-01	.3290-01	.5700-01	.9134	.1560-02	.2702-02	.2000	1.218	535.9
80	78.000	.34500	803.00	.4670-01	.3460-01	.6000-01	.9184	.1642-02	.2842-02	.2110	1.285	535.9
80	78.000	.35000	804.00	.4480-01	.3320-01	.5740-01	.9184	.1573-02	.2720-02	.2020	1.234	535.7
80	78.000	.35500	805.00	.5400-01	.4010-01	.6920-01	.9184	.1898-02	.3280-02	.2440	1.490	535.6
80	78.000	.36000	806.00	.7150-01	.5320-01	.9140-01	.9184	.2521-02	.4329-02	.3270	2.002	534.4
80	78.000	.36500	807.00	.4410-01	.3270-01	.5660-01	.9184	.1551-02	.2680-02	.2000	1.225	535.5
80	78.000	.37000	808.00	.4570-01	.3390-01	.5860-01	.9184	.1605-02	.2774-02	.2070	1.270	535.6
80	78.000	.37500	809.00	.4030-01	.2990-01	.5170-01	.9184	.1418-02	.2451-02	.1830	1.123	535.5
80	78.000	.38000	810.00	.4040-01	.3000-01	.5180-01	.9184	.1421-02	.2456-02	.1830	1.131	535.5
80	78.000	.39000	811.00	.4650-01	.3440-01	.5970-01	.9184	.1632-02	.2829-02	.2090	1.296	536.1
80	78.000	.40000	812.00	.4240-01	.3150-01	.5440-01	.9184	.1492-02	.2578-02	.1920	1.190	535.6
275	90.000	.40000-01	985.00	.4279	.2990	.4032	.9570	.1396-01	.1889-01	1.526	9.887	554.3
275	90.000	.50000-01	986.00	.3929	.2762	.3816	.9535	.1294-01	.1788-01	1.444	9.317	551.9
275	90.000	.60000-01	987.00	.3552	.2422	.3549	.9501	.1134-01	.1662-01	1.182	7.733	559.3
275	90.000	.80000-01	989.00	.2937	.2043	.3105	.9438	.9569-02	.1455-01	1.043	7.360	554.6
275	90.000	.15000	991.00	.1198	.8520-01	.1460	.9270	.4040-02	.6838-02	.4780	3.514	545.2
80	90.000	.20000	813.00	.3860-01	.2850-01	.4960-01	.9184	.1351-02	.2349-02	.1720	1.260	536.7
80	90.000	.24000	814.00	.3050-01	.2250-01	.3930-01	.9183	.1065-02	.1862-02	.1350	1.100	537.3
80	90.000	.27000	816.00	.2750-01	.2020-01	.3560-01	.9183	.9558-03	.1668-02	.1200	.9540	539.1
80	90.000	.29000	817.00	.3240-01	.2380-01	.4190-01	.9183	.1129-02	.1984-02	.1420	.8870	538.4
80	90.000	.30000	818.00	.4260-01	.3140-01	.5510-01	.9193	.1487-02	.2609-02	.1880	1.152	538.1
80	90.000	.31000	819.00	.4550-01	.3360-01	.5860-01	.9183	.1592-02	.2779-02	.2020	1.233	537.2
80	90.000	.32000	820.00	.4440-01	.3280-01	.5710-01	.9183	.1555-02	.2704-02	.1990	1.207	536.6
80	90.000	.32500	821.00	.4680-01	.3460-01	.6010-01	.9183	.1641-02	.2847-02	.2100	1.274	536.2
80	90.000	.33000	822.00	.4250-01	.3150-01	.5450-01	.9183	.1495-02	.2681-02	.1930	1.172	535.4
80	90.000	.33500	823.00	.4440-01	.3300-01	.5690-01	.9183	.1562-02	.2695-02	.2020	1.230	535.2
80	90.000	.34000	824.00	.4490-01	.3340-01	.5750-01	.9183	.1581-02	.2726-02	.2040	1.239	535.1
80	90.000	.34500	825.00	.4150-01	.3090-01	.5320-01	.9183	.1463-02	.2521-02	.1890	1.151	535.0
80	90.000	.35000	826.00	.4310-01	.3200-01	.5520-01	.9183	.1517-02	.2613-02	.1960	1.194	534.9
80	90.000	.36000	828.00	.4430-01	.3290-01	.5670-01	.9183	.1560-02	.2687-02	.2020	1.223	535.0
80	90.000	.37000	830.00	.4130-01	.3070-01	.5290-01	.9183	.1456-02	.2504-02	.1890	1.152	534.6

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F22)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
80	90.000	.37500	831.00	.4100-01	.3050-01	.5250-01	.9183	.1446-02	.2485-02	.1880	1.151	534.5
80	90.000	.38000	832.00	.4000-01	.2970-01	.5120-01	.9183	.1408-02	.2424-02	.1820	1.119	534.8
80	90.000	.39000	833.00	.3790-01	.2810-01	.4850-01	.9183	.1333-02	.2297-02	.1720	1.069	535.0
80	90.000	.40000	834.00	.4010-01	.2980-01	.5130-01	.9183	.1412-02	.2431-02	.1830	1.136	534.9
80	90.000	.50000	835.00	.3890-01	.2860-01	.5040-01	.9183	.1355-02	.2386-02	.1700	1.080	538.7
80	90.000	.60000	836.00	.3800-01	.2820-01	.4870-01	.9183	.1336-02	.2306-02	.1720	1.155	535.2
80	90.000	.70000	837.00	.3520-01	.2600-01	.4520-01	.9183	.1234-02	.2139-02	.1580	1.121	536.0
80	90.000	.80000	838.00	.3520-01	.2640-01	.4470-01	.9183	.1250-02	.2116-02	.1660	1.038	531.7
80	90.000	.90000	839.00	.2270-01	.1700-01	.2880-01	.9183	.8045-03	.1366-02	.1060	.6840	532.3
80	112.50	.23000	840.00	.3330-01	.2470-01	.4280-01	.9183	.1168-02	.2028-02	.1490	1.211	536.3
80	112.50	.25000	841.00	.2210-01	.1630-01	.2850-01	.9183	.7708-03	.1350-02	.9800-01	.7600	537.8
80	112.50	.27000	842.00	.1040-01	.7700-02	.1340-01	.9183	.3627-03	.6329-03	.4600-01	.3240	537.2
80	112.50	.30000	843.00	.3790-01	.2800-01	.4890-01	.9183	.1326-02	.2315-02	.1690	1.008	537.2
80	112.50	.33000	844.00	.4490-01	.3320-01	.5780-01	.9183	.1571-02	.2738-02	.2000	1.213	536.9
80	112.50	.35000	845.00	.3620-01	.2690-01	.4630-01	.9183	.1275-02	.2195-02	.1640	1.013	535.1
80	112.50	.37000	846.00	.2660-01	.1980-01	.3410-01	.9183	.9372-03	.1616-02	.1210	.7500	535.1
80	112.50	.40000	847.00	.3520-01	.2620-01	.4500-01	.9183	.1243-02	.2130-02	.1620	1.016	534.0
80	112.50	.45000	848.00	.3380-01	.2510-01	.4320-01	.9183	.1191-02	.2047-02	.1550	.9780	534.5
80	112.50	.50000	849.00	.3310-01	.2440-01	.4270-01	.9183	.1157-02	.2025-02	.1470	.9450	537.7
80	112.50	.55000	850.00	.2770-01	.2050-01	.3570-01	.9183	.9704-03	.1692-02	.1230	.8290	537.1
80	112.50	.60000	851.00	.3510-01	.2620-01	.4480-01	.9183	.1241-02	.2124-02	.1620	1.092	533.9
80	112.50	.65000	852.00	.3530-01	.2630-01	.4500-01	.9183	.1246-02	.2131-02	.1630	1.115	533.6
80	112.50	.70000	853.00	.3760-01	.2800-01	.4820-01	.9183	.1325-02	.2282-02	.1720	1.211	534.9
80	112.50	.75000	854.00	.3430-01	.2560-01	.4370-01	.9183	.1212-02	.2070-02	.1590	1.037	533.3
80	112.50	.80000	855.00	.3250-01	.2440-01	.4120-01	.9183	.1157-02	.1953-02	.1540	1.010	531.1
80	112.50	.90000	856.00	.1860-01	.1390-01	.2370-01	.9183	.6598-03	.1121-02	.8700-01	.5690	532.4
80	125.40	.84000	857.00	.2880-01	.2170-01	.3650-01	.9183	.1026-02	.1727-02	.1370	.8550	530.5
80	125.40	.85000	858.00	.2960-01	.2220-01	.3750-01	.9183	.1053-02	.1776-02	.1400	.8790	531.0
80	125.40	.86000	859.00	.2970-01	.2230-01	.3770-01	.9183	.1057-02	.1786-02	.1410	.8880	531.3
80	125.40	.87000	860.00	.2950-01	.2210-01	.3750-01	.9183	.1049-02	.1775-02	.1390	.8810	531.7
80	125.40	.88000	861.00	.3090-01	.2310-01	.3930-01	.9183	.1095-02	.1862-02	.1440	.9140	532.4
80	125.40	.89000	862.00	.3170-01	.2370-01	.4030-01	.9183	.1121-02	.1908-02	.1470	.9390	532.7
80	125.40	.90000	863.00	.2610-01	.1950-01	.3320-01	.9183	.9257-03	.1574-02	.1220	.7810	532.5
80	125.40	.91000	864.00	.1440-01	.1080-01	.1820-01	.9183	.5122-03	.8630-03	.6800-01	.5010	530.8
80	125.40	.92600	865.00	.1710-01	.1280-01	.2190-01	.9183	.6050-03	.1036-02	.7900-01	.5760	533.9
80	129.30	.80000	866.00	.4090-01	.3080-01	.5170-01	.9183	.1458-02	.2449-02	.1950	1.238	530.3
80	129.30	.81000	867.00	.3330-01	.2500-01	.4210-01	.9183	.1185-02	.1993-02	.1590	.9990	530.4
80	129.30	.82000	868.00	.2980-01	.2240-01	.3760-01	.9183	.1061-02	.1783-02	.1420	.8960	530.3
80	129.30	.83000	869.00	.3130-01	.2360-01	.3950-01	.9183	.1116-02	.1871-02	.1500	.9490	529.8
80	135.00	.40000-01	870.00	.3888	.2703	.3845	.9513	.1280-01	.1821-01	1.395	8.932	555.3
80	135.00	.50000-01	871.00	.4219	.2944	.4299	.9479	.1395-01	.2037-01	1.533	9.761	554.4
80	135.00	.60000-01	872.00	.3340	.2283	.3515	.9446	.1082-01	.1665-01	1.195	7.493	559.3
80	135.00	.70000-01	873.00	.2752	.1914	.2972	.9416	.9066-02	.1408-01	.9880	6.694	555.3

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F22)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TC	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
80	135.00	.10000+00	875.00	.1939	.1395	.2225	.9335	.6610-02	.1054-01	.7830	5.142	545.8
80	135.00	.15000	876.00	.1013	.7360-01	.1261	.9238	.3489-02	.5975-02	.4250	3.115	542.6
80	135.00	.20000	877.00	.4510-01	.3350-01	.5750-01	.9188	.1586-02	.2725-02	.2050	1.387	535.3
80	135.00	.35000	878.00	.3760-01	.2800-01	.4810-01	.9183	.1325-02	.2278-02	.1720	1.074	534.6
80	135.00	.40000	879.00	.3120-01	.2320-01	.3990-01	.9183	.1099-02	.1890-02	.1420	.9090	534.6
80	135.00	.50000	880.00	.2640-01	.1950-01	.3410-01	.9183	.9219-03	.1617-02	.1160	.8030	538.1
80	135.00	.55000	881.00	.2440-01	.1810-01	.3150-01	.9183	.8562-03	.1491-02	.1090	.7310	536.8
80	135.00	.60000	882.00	.3270-01	.2440-01	.4170-01	.9183	.1156-02	.1977-02	.1510	1.023	533.6
80	135.00	.65000	883.00	.3910-01	.2920-01	.4970-01	.9183	.1383-02	.2356-02	.1820	1.248	532.9
275	135.00	.70000	884.00	.1400-01	.1030-01	.1630-01	.9183	.4805-03	.8579-03	.5900-01	.4220	540.3
275	135.00	.75000	885.00	.1620-01	.1180-01	.2130-01	.9183	.5507-03	.9979-03	.6700-01	.4210	542.6
275	135.00	.80000	886.00	.2370-01	.1730-01	.3090-01	.9183	.8085-03	.1447-02	.9500-01	.6260	540.7
275	135.00	.84000	887.00	.7590-01	.5980-01	.9460-01	.9130	.2678-02	.4234-02	.0000	.0000	544.7
275	135.00	.85000	888.00	.2790-01	.2050-01	.3630-01	.9183	.9610-03	.1698-02	.1200	.7640	538.7
275	135.00	.87000	890.00	.2690-01	.1980-01	.3500-01	.9183	.9252-03	.1641-02	.1150	.7340	539.2
275	135.00	.88000	891.00	.2740-01	.1990-01	.3580-01	.9183	.9339-03	.1677-02	.1140	.7330	541.2
275	135.00	.89000	892.00	.2590-01	.1880-01	.3380-01	.9183	.8783-03	.1584-02	.1070	.6970	541.9
275	135.00	.91000	894.00	.7200-02	.5300-02	.9500-02	.9183	.2465-03	.4458-03	.3000-01	.2190	542.3
275	135.00	.92600	895.00	.1460-01	.1060-01	.1930-01	.9183	.4955-03	.9061-03	.5900-01	.4320	543.9
275	135.00	.95000	896.00	.3730-01	.2670-01	.4980-01	.9183	.1253-02	.2331-02	.1470	1.051	546.3
275	142.30	.42000	897.00	.3420-01	.2560-01	.4320-01	.9183	.1206-02	.2026-02	.1620	1.048	529.6
275	142.30	.43500	898.00	.3310-01	.2500-01	.4170-01	.9183	.1169-02	.1953-02	.1580	.9950	528.5
275	142.30	.45000	899.00	.3140-01	.2360-01	.3970-01	.9183	.1106-02	.1859-02	.1480	.9760	529.8
275	142.30	.50000	900.00	.2740-01	.2040-01	.3520-01	.9183	.9537-03	.1649-02	.1230	.8220	535.0
275	142.30	.60000	901.00	.3840-01	.2860-01	.4900-01	.9183	.1339-02	.2296-02	.1740	1.165	533.5
275	142.30	.70000	902.00	.2980-01	.2190-01	.3870-01	.9183	.1024-02	.1811-02	.1280	.8760	538.7
275	142.30	.80000	903.00	.3140-01	.2310-01	.4070-01	.9183	.1080-02	.1905-02	.1350	.8630	538.4
275	142.30	.87000	904.00	.3290-01	.2410-01	.4290-01	.9183	.1127-02	.2007-02	.1390	.8830	540.0
275	154.98	.42000	905.00	.3590-01	.2700-01	.4540-01	.9183	.1266-02	.2124-02	.1700	1.104	529.5
275	154.98	.43500	906.00	.3190-01	.2390-01	.4030-01	.9183	.1121-02	.1890-02	.1490	.9780	530.7
275	154.98	.45000	907.00	.3200-01	.2400-01	.4050-01	.9183	.1126-02	.1898-02	.1500	.9880	530.2
275	154.98	.50000	908.00	.2670-01	.1980-01	.3430-01	.9183	.9259-03	.1605-02	.1190	.6530	535.5
275	154.98	.53500	913.00	.1640-01	.1180-01	.2170-01	.9183	.5539-03	.1019-02	.6600-01	.4770	545.0
275	154.98	.94500	914.00	.2320-01	.1660-01	.3100-01	.9183	.7771-03	.1451-02	.9100-01	.6530	546.8
275	157.50	.70000-01	918.00	.2611	.1842	.2846	.9401	.8626-02	.1333-01	.9720	6.741	550.9
275	157.50	.80000-01	919.00	.2280	.1624	.2542	.9373	.7606-02	.1191-01	.8770	5.978	548.3
275	157.50	.10000+00	920.00	.1769	.1288	.2040	.9322	.6034-02	.9557-02	.7360	4.931	541.6
275	157.50	.20000	922.00	.3900-01	.2920-01	.4930-01	9185	.1368-02	.2309-02	.1820	1.219	530.9
275	157.50	.42000	923.00	.3260-01	.2450-01	.4120-01	.9183	.1148-02	.1929-02	.1540	1.010	529.8
275	157.50	.43500	924.00	.3030-01	.2280-01	.3820-01	.9183	.1070-02	.1791-02	.1440	.9500	529.0
275	157.50	.45000	925.00	.2920-01	.2190-01	.3690-01	.9183	.1028-02	.1728-02	.1380	.9160	529.7
275	157.50	.85000	926.00	.2160-01	.1580-01	.2800-01	.9183	.7416-03	.1310-02	.9300-01	.6020	538.7
275	157.50	.86000	927.00	.2160-01	.1580-01	.2810-01	.9183	.7422-03	.1317-02	.9200-01	.6000	539.3

IH41(AEDC V41A-A4A; T5 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
275	157.50	.87000	928.00	.1660-01	.1210-01	.2160-01	.9183	.5675-03	.1011-02	.7000-01	.4580	539.9
275	157.50	.88000	929.00	.1870-01	.1360-01	.2440-01	.9183	.6372-03	.1143-02	.7800-01	.5120	541.0
275	157.50	.89000	930.00	.1960-01	.1420-01	.2580-01	.9183	.6661-03	.1208-02	.8100-01	.5310	542.7
275	157.50	.90000	931.00	.1280-01	.9100-02	.1660-01	.9183	.4272-03	.7758-03	.5200-01	.3480	542.9
275	157.50	.91000	932.00	.4600-02	.3300-02	.6100-02	.9183	.1560-03	.2846-03	.1900-01	.1370	543.6
275	157.50	.92600	933.00	.9900-02	.7200-02	.1320-01	.9183	.3359-03	.6161-03	.4000-01	.2930	544.3
275	163.12	.41500	934.00	.3500-01	.2640-01	.4390-01	.9183	.1238-02	.2058-02	.1690	1.104	527.5
275	163.12	.42000	935.00	.3690-01	.2780-01	.4650-01	.9183	.1301-02	.2180-02	.1750	1.155	529.1
275	163.12	.43000	937.00	.3200-01	.2410-01	.4040-01	.9183	.1129-02	.1891-02	.1520	1.005	529.0
275	163.12	.44000	938.00	.3350-01	.2520-01	.4230-01	.9183	.1180-02	.1983-02	.1580	1.043	529.6
275	163.12	.44500	939.00	.2960-01	.2220-01	.3740-01	.9183	.1041-02	.1754-02	.1390	.9300	530.2
275	163.12	.45000	940.00	.2820-01	.2120-01	.3570-01	.9183	.9913-03	.1671-02	.1320	.8850	530.3
275	163.12	.50000	941.00	.2500-01	.1860-01	.3200-01	.9183	.8691-03	.1501-02	.1120	.7640	534.8
275	163.12	.60000	942.00	.2830-01	.2100-01	.3620-01	.9183	.9841-03	.1694-02	.1270	.8260	534.2
275	163.12	.70000	943.00	.2270-01	.1670-01	.2950-01	.9183	.7830-03	.1381-02	.9800-01	.6760	538.4
275	163.12	.80000	944.00	.2200-01	.1610-01	.2860-01	.9183	.7550-03	.1338-02	.9400-01	.6150	539.1
275	168.00	.35000	945.00	.2890-01	.2190-01	.3640-01	.9183	.1025-02	.1704-02	.1400	.8930	527.5
275	168.00	.36000	946.00	.3060-01	.2330-01	.3860-01	.9183	.1091-02	.1808-02	.1490	.9580	526.8
275	168.00	.37500	948.00	.3160-01	.2380-01	.3980-01	.9183	.1117-02	.1863-02	.1510	.9720	528.3
275	168.00	.38500	950.00	.2760-01	.2090-01	.3470-01	.9183	.9766-03	.1624-02	.1330	.8650	527.6
275	168.00	.39000	951.00	.3160-01	.2390-01	.3980-01	.9183	.1120-02	.1863-02	.1520	.9960	527.7
275	168.00	.39500	952.00	.3140-01	.2370-01	.3950-01	.9183	.1110-02	.1850-02	.1510	.9710	528.0
275	168.00	.40000	953.00	.3150-01	.2370-01	.3970-01	.9183	.1112-02	.1859-02	.1500	.9850	528.6
275	168.00	.40500	954.00	.3190-01	.2410-01	.4020-01	.9183	.1127-02	.1885-02	.1520	1.001	528.7
275	168.00	.41000	955.00	.3280-01	.2470-01	.4130-01	.9183	.1158-02	.1935-02	.1560	1.029	528.6
275	168.00	.41500	956.00	.3350-01	.2530-01	.4230-01	.9183	.1185-02	.1980-02	.1600	1.057	528.5
275	168.00	.42000	957.00	.3360-01	.2540-01	.4230-01	.9183	.1188-02	.1984-02	.1600	1.063	528.5
275	168.00	.42500	958.00	.3270-01	.2470-01	.4120-01	.9183	.1155-02	.1931-02	.1560	1.032	528.7
275	168.00	.43000	959.00	.3430-01	.2580-01	.4330-01	.9183	.1207-02	.2028-02	.1620	1.067	529.7
275	168.00	.44000	960.00	.3780-01	.2840-01	.4770-01	.9183	.1331-02	.2235-02	.1790	1.182	529.5
275	168.00	.44500	961.00	.2970-01	.2230-01	.3760-01	.9183	.1044-02	.1761-02	.1390	.9200	530.4
275	168.00	.45500	963.00	.2810-01	.2110-01	.3560-01	.9183	.9863-03	.1666-02	.1310	.8720	530.7
275	168.00	.46000	964.00	.2890-01	.2160-01	.3670-01	.9183	.1014-02	.1719-02	.1340	.8960	531.5
275	168.00	.47000	965.00	.2810-01	.2100-01	.3570-01	.9183	.9830-03	.1671-02	.1290	.8690	531.9
275	168.00	.48000	966.00	.2930-01	.2180-01	.3740-01	.9183	.1022-02	.1751-02	.1330	.9010	533.3
275	168.00	.49000	967.00	.2910-01	.2170-01	.3710-01	.9183	.1017-02	.1737-02	.1330	.9000	532.8
275	168.00	.85000	968.00	.2000-01	.1460-01	.2590-01	.9183	.6851-03	.1215-02	.8500-01	.5540	539.3
275	168.00	.86000	969.00	.1960-01	.1440-01	.2560-01	.9183	.6722-03	.1199-02	.8300-01	.5420	540.1
275	168.00	.87000	970.00	.1720-01	.1260-01	.2250-01	.9183	.5886-03	.1054-02	.7200-01	.4730	540.8
275	168.00	.88000	971.00	.1820-01	.1320-01	.2390-01	.9183	.6174-03	.1118-02	.7500-01	.4900	542.4
275	168.00	.89000	972.00	.1650-01	.1190-01	.2180-01	.9183	.5585-03	.1021-02	.6700-01	.4450	543.9
275	168.00	.90000	973.00	.1220-01	.8900-02	.1610-01	.9183	.4151-03	.7534-03	.5000-01	.3420	542.8
275	168.00	.91000	974.00	.2200-02	.1600-02	.2900-02	.9183	.7589-04	.1380-03	.9000-02	.6700-01	543.1

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F22)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
275	168.00	.92600	975.00	.6400-02	.4600-02	.8530-02	.9183	.2165-03	.3990-03	.2600-01	.1860	545.1
275	168.00	.95000	976.00	.2570-01	.1830-01	.3440-01	.9183	.8576-03	.1612-02	.9900-01	.7150	547.8
275	180.00	.20000-01	982.00	.6150-01	.4630-01	.5990-01	.9542	.2168-02	.2806-02	.2900	2.035	549.7
275	180.00	.25000-01	983.00	.1371	.1019	.1350	.9522	.4772-02	.6325-02	.6170	4.289	554.3
275	180.00	.30000-01	984.00	.2802	.1952	.2789	.9505	.9142-02	.1306-01	.9990	6.834	554.3
78	180.00	.40000-01	600.00	.3531	.2380	.3563	.9491	.1127-01	.1687-01	1.143	7.302	559.9
78	180.00	.50000-01	601.00	.3788	.2551	.3953	.9457	.1208-01	.1872-01	1.223	7.837	560.1
78	180.00	.60000-01	602.00	.3232	.2120	.3506	.9425	.1004-01	.1660-01	.9650	6.368	565.2
78	180.00	.70000-01	603.00	.2606	.1743	.2907	.9395	.8251-02	.1377-01	.8230	5.578	561.6
78	180.00	.80000-01	604.00	.2331	.1577	.2668	.9368	.7468-02	.1263-01	.7640	4.939	559.1
78	180.00	.10000+00	605.00	.1634	.1125	.1958	.9318	.5325-02	.9269-02	.5650	4.035	555.3
78	180.00	.15000	606.00	.8420-01	.5890-01	.1099	.9226	.2791-02	.5202-02	.3080	2.235	551.0
78	180.00	.20000	607.00	.3610-01	.2580-01	.4820-01	.9185	.1221-02	.2284-02	.1420	.9240	545.5
78	180.00	.21000	608.00	.2580-01	.1850-01	.3440-01	.9183	.8762-03	.1631-02	.1020	.7070	544.6
78	180.00	.22000	609.00	.1990-01	.1420-01	.2650-01	.9183	.6744-03	.1254-02	.7900-01	.5870	544.4
78	180.00	.35000	611.00	.2410-01	.1730-01	.3220-01	.9183	.8175-03	.1523-02	.9500-01	.6360	544.7
78	180.00	.36000	612.00	.2550-01	.1820-01	.3400-01	.9183	.8634-03	.1609-02	.1010	.6770	544.8
78	180.00	.37000	613.00	.3040-01	.2170-01	.4060-01	.9183	.1030-02	.1922-02	.1200	.8060	545.8
78	180.00	.37500	614.00	.2850-01	.2040-01	.3800-01	.9183	.9646-03	.1800-02	.1120	.7550	545.0
78	180.00	.38000	615.00	.2600-01	.1860-01	.3470-01	.9183	.8805-03	.1643-02	.1030	.6900	544.9
78	180.00	.38500	616.00	.2650-01	.1900-01	.3540-01	.9183	.8991-03	.1677-02	.1050	.7050	544.9
78	180.00	.39000	617.00	.2850-01	.2040-01	.3810-01	.9183	.9667-03	.1803-02	.1130	.7550	544.9
78	180.00	.39500	618.00	.2750-01	.1970-01	.3680-01	.9183	.9328-03	.1742-02	.1090	.7320	545.0
78	180.00	.40000	619.00	.2790-01	.2000-01	.3740-01	.9183	.9463-03	.1770-02	.1100	.7370	545.2
78	180.00	.40500	620.00	.2960-01	.2120-01	.3960-01	.9183	.1003-02	.1873-02	.1170	.7840	545.1
78	180.00	.41000	621.00	.2930-01	.2090-01	.3920-01	.9183	.9917-03	.1854-02	.1150	.7750	545.2
78	180.00	.41500	622.00	.3060-01	.2190-01	.4090-01	.9183	.1037-02	.1937-02	.1210	.8100	545.8
78	180.00	.42500	624.00	.3180-01	.2270-01	.4260-01	.9183	.1073-02	.2018-02	.1240	.8300	546.0
78	180.00	.43000	625.00	.2690-01	.1920-01	.3600-01	.9183	.9082-03	.1705-02	.1050	.7060	545.8
78	180.00	.44000	626.00	.3040-01	.2170-01	.4080-01	.9183	.1028-02	.1932-02	.1190	.7990	545.9
78	180.00	.44500	627.00	.2820-01	.2020-01	.3780-01	.9183	.9543-03	.1790-02	.1100	.7500	545.6
78	180.00	.45000	628.00	.2600-01	.1850-01	.3480-01	.9183	.8782-03	.1649-02	.1020	.6890	545.8
78	180.00	.45500	629.00	.2430-01	.1740-01	.3250-01	.9183	.8219-03	.1539-02	.9500-01	.6570	545.4
78	180.00	.46000	630.00	.2490-01	.1780-01	.3330-01	.9183	.8428-03	.1575-02	.9800-01	.6590	545.2
78	180.00	.47000	631.00	.2220-01	.1590-01	.2980-01	.9183	.7515-03	.1409-02	.8700-01	.5850	545.6
78	180.00	.49000	633.00	.2500-01	.1790-01	.3340-01	.9183	.8455-03	.1583-02	.9800-01	.6700	545.3
78	180.00	.50000	634.00	.2050-01	.1470-01	.2730-01	.9183	.6952-03	.1294-02	.8100-01	.5680	544.6
78	180.00	.55000	635.00	.1460-01	.1040-01	.1950-01	.9183	.4942-03	.9225-03	.5800-01	.3820	545.0
78	180.00	.60000	636.00	.2050-01	.1470-01	.2750-01	.9183	.6953-03	.1301-02	.8100-01	.5210	545.3
78	180.00	.65000	637.00	.2400-01	.1710-01	.3220-01	.9183	.8109-03	.1526-02	.9300-01	.6050	546.1
78	180.00	.70000	638.00	.2260-01	.1610-01	.3040-01	.9183	.7641-03	.1441-02	.8900-01	.6020	546.3
78	180.00	.75000	639.00	.1260-01	.9100-02	.1680-01	.9183	.4290-03	.7969-03	.5000-01	.3240	544.3
78	180.00	.80000	640.00	.1850-01	.1320-01	.2480-01	.9183	.6253-03	.1174-02	.7200-01	.4530	545.8

DATE 03 JUN 78

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F22)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R=TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
78	180.00	.85000	641.00	.1760-01	.1260-01	.2370-01	.9183	.5953-03	.1123-02	.6800-01	.4330	546.3
78	180.00	.86000	642.00	.1990-01	.1410-01	.2670-01	.9183	.6697-03	.1266-02	.7700-01	.4990	546.7
78	180.00	.87000	643.00	.2210-01	.1580-01	.2990-01	.9183	.7463-03	.1411-02	.8600-01	.5590	546.6
78	180.00	.88000	644.00	.2020-01	.1440-01	.2710-01	.9183	.6808-03	.1285-02	.7800-01	.5090	546.4
78	180.00	.89000	645.00	.2100-01	.1490-01	.2830-01	.9183	.7077-03	.1342-02	.8100-01	.5320	547.0
78	180.00	.90000	646.00	.9700-02	.6900-02	.1300-01	.9183	.3286-03	.6140-03	.3800-01	.2570	545.1
78	180.00	.92600	648.00	.7500-02	.5400-02	.1000-01	.9183	.2555-03	.4752-03	.3000-01	.2120	544.5
78	180.00	.95000	649.00	.2590-01	.1850-01	.3480-01	.9183	.9738-03	.1647-02	.1010	.7270	546.2
78	191.25	.35000	650.00	.3170-01	.2270-01	.4240-01	.9183	.1074-02	.2009-02	.1250	.8380	545.3
78	191.25	.36000	651.00	.3100-01	.2210-01	.4150-01	.9183	.1048-02	.1963-02	.1220	.8200	545.4
78	191.25	.37000	652.00	.3040-01	.2170-01	.4070-01	.9183	.1029-02	.1929-02	.1190	.8020	545.5
78	191.25	.37500	653.00	.2960-01	.2120-01	.3970-01	.9183	.1003-02	.1881-02	.1160	.7830	545.6
78	191.25	.38000	654.00	.2930-01	.2090-01	.3920-01	.9183	.9913-03	.1855-02	.1150	.7760	545.3
78	191.25	.38500	655.00	.2940-01	.2100-01	.3930-01	.9183	.9946-03	.1862-02	.1150	.7780	545.4
78	191.25	.39000	656.00	.2950-01	.2110-01	.3960-01	.9183	.9991-03	.1873-02	.1160	.7800	545.5
78	191.25	.39500	657.00	.2970-01	.2120-01	.3980-01	.9183	.1002-02	.1886-02	.1160	.7790	545.1
78	191.25	.40000	658.00	.2600-01	.1850-01	.3480-01	.9183	.8771-03	.1649-02	.1040	.6850	545.9
78	191.25	.40500	659.00	.3000-01	.2140-01	.4030-01	.9183	.1015-02	.1907-02	.1170	.7930	545.9
78	191.25	.41000	660.00	.2990-01	.2140-01	.4000-01	.9183	.1012-02	.1895-02	.1170	.7920	545.4
78	191.25	.41500	661.00	.2960-01	.2120-01	.3970-01	.9183	.1003-02	.1878-02	.1160	.7830	545.4
78	191.25	.42000	662.00	.3070-01	.2190-01	.4120-01	.9183	.1039-02	.1952-02	.1200	.8090	545.9
78	191.25	.42500	663.00	.3060-01	.2190-01	.4100-01	.9183	.1037-02	.1943-02	.1200	.8140	545.4
78	191.25	.43000	664.00	.3010-01	.2150-01	.4030-01	.9183	.1018-02	.1909-02	.1180	.8050	545.6
78	191.25	.44000	665.00	.2980-01	.2130-01	.3990-01	.9183	.1008-02	.1890-02	.1170	.7920	545.6
78	191.25	.45000	666.00	.3340-01	.2380-01	.4470-01	.9183	.1127-02	.2118-02	.1300	.8830	545.9
78	191.25	.45500	667.00	.2900-01	.2080-01	.3890-01	.9183	.9830-03	.1841-02	.1140	.7740	545.4
78	191.25	.46000	668.00	.2870-01	.2050-01	.3840-01	.9183	.9726-03	.1819-02	.1130	.7690	545.2
78	191.25	.47000	669.00	.2710-01	.1940-01	.3630-01	.9183	.9203-03	.1718-02	.1070	.7320	545.0
78	191.25	.49000	670.00	.1990-01	.1420-01	.2680-01	.9183	.6737-03	.1267-02	.7800-01	.5310	545.9
78	191.25	.49200	671.00	.2480-01	.1770-01	.3320-01	.9183	.8372-03	.1571-02	.9700-01	.6590	545.7
78	191.25	.50000	672.00	.2620-01	.1870-01	.3490-01	.9183	.8877-03	.1654-02	.1040	.7210	544.7
78	191.25	.60000	673.00	.2750-01	.1970-01	.3680-01	.9183	.9311-03	.1743-02	.1080	.6930	545.4
78	191.25	.70000	674.00	.2390-01	.1700-01	.3220-01	.9183	.8044-03	.1526-02	.9200-01	.6250	547.1
78	191.25	.85000	676.00	.2460-01	.1750-01	.3300-01	.9183	.8298-03	.1564-02	.9500-01	.6540	546.3
78	191.25	.86000	677.00	.2280-01	.1620-01	.3070-01	.9183	.7679-03	.1452-02	.8800-01	.5630	546.6
78	191.25	.87000	678.00	.2270-01	.1620-01	.3050-01	.9183	.7649-03	.1445-02	.8800-01	.5660	546.6
78	191.25	.88000	679.00	.2290-01	.1630-01	.3080-01	.9183	.7700-03	.1456-02	.8800-01	.5760	546.7
78	191.25	.89000	680.00	.2160-01	.1540-01	.2910-01	.9183	.7288-03	.1379-02	.8400-01	.5530	546.8
78	191.25	.90000	681.00	.1520-01	.1090-01	.2040-01	.9183	.5143-03	.9679-03	.5900-01	.4000	546.1
78	191.25	.92600	683.00	.7500-02	.5400-02	.1010-01	.9183	.2549-03	.4778-03	.3000-01	.2160	545.5
79	191.25	.95000	684.00	.2450-01	.1750-01	.3290-01	.9183	.8267-03	.1558-02	.9500-01	.6870	546.3
78	197.00	.33000	685.00	.2320-01	.1670-01	.3100-01	.9183	.7890-03	.1468-02	.9200-01	.6200	544.6
78	197.00	.34000	686.00	.2440-01	.1750-01	.3260-01	.9183	.8270-03	.1543-02	.9500-01	.6480	544.9

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET (RV7F22)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
78	197.00	.35000	687.00	.2460-01	.1760-01	.3280-01	.9183	.8335-03	.1553-02	.9700-01	.6540	544.7
78	197.00	.36000	688.00	.2840-01	.2030-01	.3790-01	.9183	.9614-03	.1794-02	.1120	.7530	545.0
78	197.00	.37000	689.00	.3000-01	.2150-01	.4010-01	.9183	.1016-02	.1897-02	.1180	.7950	545.1
78	197.00	.37500	690.00	.4040-01	.2890-01	.5390-01	.9183	.1370-02	.2552-02	.1600	1.079	544.7
78	197.00	.50000	691.00	.2770-01	.1990-01	.3700-01	.9183	.9402-03	.1750-02	.1100	.7390	544.6
78	197.00	.60000	692.00	.2800-01	.2000-01	.3730-01	.9183	.9483-03	.1767-02	.1110	.7140	544.8
78	197.00	.70000	693.00	.1190-01	.8500-02	.1590-01	.9183	.4018-03	.7506-03	.4700-01	.3170	545.1
78	197.00	.80000	694.00	.2090-01	.1500-01	.2790-01	.9183	.7095-03	.1320-02	.8300-01	.5210	544.6
78	197.00	.87000	695.00	.2370-01	.1690-01	.3180-01	.9183	.7997-03	.1507-02	.9200-01	.5670	546.2
78	197.00	.92500	696.00	.8700-02	.6200-02	.1160-01	.9183	.2929-03	.5479-03	.3400-01	.2490	545.2
78	209.80	.15000-01	697.00	.5690-01	.4070-01	.7620-01	.9183	.1928-02	.3607-02	.2240	1.539	546.0
79	209.80	.30000-01	698.00	.3685	.2474	.3631	.9515	.1172-01	.1721-01	1.182	7.977	562.1
79	209.80	.50000-01	699.00	.4142	.2862	.4269	.9467	.1356-01	.2023-01	1.455	9.205	555.7
79	209.80	.70000-01	700.00	.2730	.1879	.2988	.9405	.8907-02	.1416-01	.9480	6.377	556.5
79	209.80	.10000+00	701.00	.2012	.1420	.2354	.9325	.6732-02	.1116-01	.7590	4.831	550.1
79	209.80	.15000	702.00	.8680-01	.6240-01	.1099	.9231	.2958-02	.5207-02	.3490	2.498	545.0
79	209.80	.20000	703.00	.3770-01	.2770-01	.4870-01	.9186	.1312-02	.2308-02	.1640	1.097	537.9
79	209.80	.30000	704.00	.1960-01	.1430-01	.2560-01	.9193	.6797-03	.1213-02	.8400-01	.5950	539.7
79	209.80	.35000	705.00	.3120-01	.2290-01	.4040-01	.9183	.1086-02	.1914-02	.1360	.9340	537.8
79	209.80	.37500	706.00	.3000-01	.2210-01	.3880-01	.9183	.1046-02	.1839-02	.1310	.9060	537.3
79	209.80	.50000	707.00	.2810-01	.2050-01	.3680-01	.9183	.9722-03	.1744-02	.1190	.8170	540.6
79	209.80	.60000	708.00	.6510-01	.4800-01	.8400-01	.9183	.2276-02	.3979-02	.2880	1.846	536.4
79	209.80	.70000	709.00	.3080-01	.2260-01	.4000-01	.9183	.1070-02	.1896-02	.1330	.8520	538.5
79	209.80	.80000	710.00	.3130-01	.2320-01	.4020-01	.9183	.1102-02	.1903-02	.1420	.8890	534.3
79	209.80	.87000	711.00	.3410-01	.2530-01	.4390-01	.9183	.1197-02	.2082-02	.1520	.9690	535.5
79	209.80	.92600	712.00	.1330-01	.9800-02	.1730-01	.9183	.4636-03	.8222-03	.5800-01	.4200	538.7
79	217.70	.30000-01	714.00	.3748	.2507	.3671	.9521	.1188-01	.1740-01	1.188	8.020	562.9
79	217.70	.50000-01	715.00	.4280	.2948	.4389	.9473	.1397-01	.2080-01	1.488	9.661	556.4
79	217.70	.70000-01	716.00	.2761	.1897	.3008	.9410	.8988-02	.1426-01	.9510	6.459	557.1
79	217.70	.10000+00	717.00	.1900	.1347	.2209	.9330	.6385-02	.1047-01	.7270	4.710	549.0
79	217.70	.15000	718.00	.8470-01	.6100-01	.1068	.9234	.2890-02	.5063-02	.3420	2.504	544.6
79	217.70	.20000	719.00	.4100-01	.3020-01	.5270-01	.9187	.1431-02	.2500-02	.1800	1.222	536.9
79	217.70	.30000	720.00	.2100-01	.1530-01	.2740-01	.9183	.7266-03	.1298-02	.8900-01	.6420	539.9
79	217.70	.35000	721.00	.3390-01	.2500-01	.4390-01	.9183	.1184-02	.2081-02	.1490	1.037	537.2
79	217.70	.37500	722.00	.3230-01	.2380-01	.4180-01	.9183	.1129-02	.1981-02	.1420	.9910	537.0
79	217.70	.50000	723.00	.2390-01	.1750-01	.3120-01	.9183	.8280-03	.1479-02	.1020	.7070	539.8
79	217.70	.60000	724.00	.3450-01	.2550-01	.4450-01	.9183	.1208-02	.2108-02	.1530	.9860	536.0
79	217.70	.70000	725.00	.3050-01	.2240-01	.3970-01	.9183	.1061-02	.1881-02	.1320	.8410	538.7
79	217.70	.80000	726.00	.3440-01	.2560-01	.4410-01	.9183	.1212-02	.2090-02	.1560	.9880	534.0
79	217.70	.87000	727.00	.3190-01	.2360-01	.4110-01	.9183	.1120-02	.1947-02	.1430	.9170	535.5
79	217.70	.92600	728.00	.1520-01	.1120-01	.1970-01	.9183	.5286-03	.9352-03	.6600-01	.4810	538.3

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = 5.000 BETA = .0000 GRIT = .0000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
69	5.500	4.956	5.020	.0000	.0000	178.0	.1910	744.0	105.5	4.051	2769.	.1521-03
70	5.500	4.958	5.010	.0000	.0000	178.0	.1910	744.0	105.5	4.051	2768.	.1521-03
71	5.500	4.950	5.030	.0000	.0000	177.9	.1910	744.0	105.6	4.050	2769.	.1520-03
250	5.500	4.979	5.010	.0000	.0000	177.8	.1910	741.0	105.1	4.046	2763.	.1525-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
69	.8497-07	.4480-01	.1365-01
70	.8494-07	.4480-01	.1365-01
71	.8501-07	.4480-01	.1366-01
250	.8463-07	.4475-01	.1363-01

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
70	.00000	.30000-02	730.00	.4195	.3200	.3678	.9726	.1433-01	.1648-01	2.247	15.12	527.0
70	.00000	.10300-01	732.00	.1589	.1277	.1920	.9146	.5722-02	.8602-02	1.086	7.449	554.1
70	.00000	.15000-01	732.00	.1167	.9380-01	.1409	.9146	.4204-02	.6312-02	.8000	5.422	553.6
70	.00000	.20000-01	733.00	.2067	.1636	.1878	.9691	.7331-02	.8412-02	1.309	8.902	565.3
70	.00000	.25000-01	734.00	.5054	.3748	.4514	.9672	.1679-01	.2022-01	2.416	16.01	599.9
70	.00000	.30000-01	735.00	.6372	.4714	.5746	.9655	.2112-01	.2574-01	3.018	20.11	600.8
70	.00000	.40000-01	737.00	.4429	.3407	.4086	.9640	.1526-01	.1831-01	2.459	15.75	582.7
70	.00000	.45000-01	738.00	.4237	.3291	.3960	.9622	.1474-01	.1774-01	2.455	16.01	577.3
70	.00000	.60000-01	739.00	.4159	.3155	.3983	.9569	.1413-01	.1784-01	2.178	14.33	589.7
70	.00000	.70000-01	740.00	.3948	.3005	.3862	.9535	.1346-01	.1730-01	2.095	13.88	588.1
70	.00000	.80000-01	741.00	.3432	.2625	.3427	.9503	.1176-01	.1535-01	1.858	13.25	585.7
70	.00000	.10000+00	742.00	.2792	.2177	.2890	.9440	.9753-02	.1295-01	1.647	10.85	574.9
70	.00000	.12500	743.00	.2154	.1669	.2334	.9368	.7476-02	.1045-01	1.234	8.832	578.7
70	.00000	.15000	744.00	.1673	.1315	.1873	.9303	.5891-02	.8391-02	1.025	7.043	569.8
70	.00000	.17500	745.00	.1103	.8790-01	.1266	.9247	.3938-02	.5671-02	.7220	5.388	560.5
70	.00000	.20000	746.00	.8340-01	.6700-01	.9790-01	.9199	.3001-02	.4386-02	.5660	4.032	555.2

ORIGINAL PAGE IS
OF POOR QUALITY

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
70	.00000	.21500	747.00	.6730-01	.5420-01	.7990-01	.9176	.2428-02	.3578-02	.4630	3.139	553.1
70	.00000	.23000	748.00	.5250-01	.4220-01	.6290-01	.9157	.1891-02	.2819-02	.3600	2.655	553.2
70	.00000	.24000	749.00	.4610-01	.3710-01	.5560-01	.9146	.1662-02	.2490-02	.3170	2.385	552.9
70	.00000	.25000	750.00	.2350-01	.1900-01	.2830-01	.9146	.8500-03	.1270-02	.1630	1.318	551.7
70	.00000	.30000	751.00	.5380-01	.4320-01	.6490-01	.9146	.1937-02	.2908-02	.3680	2.410	553.6
70	.00000	.35000	752.00	.5170-01	.4170-01	.6230-01	.9146	.1867-02	.2793-02	.3580	2.255	552.1
70	.00000	.40000	753.00	.4800-01	.3840-01	.5820-01	.9146	.1721-02	.2608-02	.3210	2.056	557.0
70	.00000	.50000	754.00	.4370-01	.3440-01	.5420-01	.9146	.1540-02	.2428-02	.2670	1.729	570.1
70	.00000	.60000	755.00	.4540-01	.3600-01	.5560-01	.9146	.1612-02	.2490-02	.2900	1.846	563.7
70	.00000	.70000	756.00	.4860-01	.3830-01	.6010-01	.9146	.1715-02	.2690-02	.3000	1.962	568.6
70	.00000	.80000	757.00	.4210-01	.3360-01	.5120-01	.9146	.1505-02	.2295-02	.2770	1.728	559.4
70	.00000	.90000	758.00	.1840-01	.1470-01	.2230-01	.9146	.6607-03	.9997-03	.1240	.7960	556.5
70	55.000	.22000	759.00	.4830-01	.3910-01	.5760-01	.9154	.1754-02	.2578-02	.3450	2.567	547.0
70	55.000	.25000	760.00	.2180-01	.1760-01	.2620-01	.9136	.7901-03	.1174-02	.1550	1.215	547.3
70	55.000	.27000	761.00	.2790-01	.2260-01	.3380-01	.9136	.1010-02	.1514-02	.1950	1.448	550.8
70	55.000	.30000	762.00	.4420-01	.3580-01	.5340-01	.9136	.1605-02	.2391-02	.3140	1.884	548.4
70	55.000	.32000	763.00	.4720-01	.3830-01	.5680-01	.9136	.1717-02	.2546-02	.3390	2.007	546.3
70	55.000	.34000	764.00	.4430-01	.3590-01	.5320-01	.9136	.1610-02	.2385-02	.3190	1.891	546.0
70	55.000	.36000	765.00	.4310-01	.3500-01	.5180-01	.9136	.1569-02	.2319-02	.3120	1.875	545.2
70	55.000	.38000	766.00	.4240-01	.3440-01	.5090-01	.9136	.1543-02	.2281-02	.3060	1.864	545.2
70	55.000	.40000	767.00	.4170-01	.3390-01	.5010-01	.9136	.1519-02	.2245-02	.3020	1.890	545.0
70	67.500	.23000	768.00	.3680-01	.2990-01	.4410-01	.9140	.1338-02	.1978-02	.2650	1.971	545.9
70	67.500	.25000	769.00	.1930-01	.1570-01	.2330-01	.9133	.7034-03	.1043-02	.1390	1.084	545.7
70	67.500	.27000	770.00	.2720-01	.2200-01	.3290-01	.9133	.9843-03	.1472-02	.1920	1.395	549.2
70	67.500	.29000	771.00	.2680-01	.2170-01	.3230-01	.9133	.9729-03	.1449-02	.1910	1.182	547.7
70	67.500	.30000	772.00	.4030-01	.3270-01	.4870-01	.9133	.1463-02	.2180-02	.2870	1.753	547.7
70	67.500	.31000	773.00	.4240-01	.3440-01	.5120-01	.9133	.1542-02	.2293-02	.3040	1.842	546.8
70	67.500	.32000	774.00	.4010-01	.3260-01	.4820-01	.9133	.1460-02	.2161-02	.2900	1.747	545.0
70	67.500	.32500	775.00	.4200-01	.3420-01	.5050-01	.9133	.1531-02	.2264-02	.3040	1.838	544.8
70	67.500	.33000	776.00	.4120-01	.3350-01	.4950-01	.9133	.1499-02	.2219-02	.2980	1.804	544.9
70	67.500	.33500	777.00	.4340-01	.3530-01	.5210-01	.9133	.1580-02	.2335-02	.3150	1.905	544.5
70	67.500	.34000	778.00	.4360-01	.3540-01	.5240-01	.9133	.1588-02	.2347-02	.3160	1.913	544.6
70	67.500	.34500	779.00	.4180-01	.3400-01	.5020-01	.9133	.1522-02	.2250-02	.3040	1.843	544.4
70	67.500	.35000	780.00	.4240-01	.3450-01	.5090-01	.9133	.1545-02	.2281-02	.3080	1.877	544.2
70	67.500	.35500	781.00	.4340-01	.3530-01	.5220-01	.9133	.1582-02	.2337-02	.3160	1.927	544.2
70	67.500	.36000	782.00	.4320-01	.3520-01	.5200-01	.9133	.1575-02	.2327-02	.3140	1.918	544.3
70	67.500	.36500	783.00	.4140-01	.3370-01	.4970-01	.9133	.1510-02	.2228-02	.3020	1.840	543.7
70	67.500	.37000	784.00	.4030-01	.3280-01	.4830-01	.9133	.1468-02	.2166-02	.2940	1.799	543.6
70	67.500	.37500	785.00	.4180-01	.3400-01	.5020-01	.9133	.1522-02	.2249-02	.3040	1.875	544.2
70	67.500	.38000	786.00	.4050-01	.3290-01	.4860-01	.9133	.1475-02	.2178-02	.2950	1.824	544.0
70	67.500	.39000	787.00	.4090-01	.3330-01	.4910-01	.9133	.1490-02	.2202-02	.2970	1.842	544.4
70	67.500	.40000	788.00	.4150-01	.3370-01	.4990-01	.9133	.1510-02	.2234-02	.3000	1.878	544.9
71	67.500	.50000	789.00	.3830-01	.3090-01	.4640-01	.9133	.1384-02	.2079-02	.2670	1.709	550.8

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F22)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
250	67.500	.60000	790.00	.8200-01	.5860-01	.9830-01	.9293	.3248-02	.5447-02	.3870	2.523	561.8
250	67.500	.70000	791.00	.8800-01	.6080-01	.1079	.9293	.3371-02	.5984-02	.3720	2.595	570.7
250	67.500	.80000	792.00	.9450-01	.6590-01	.1153	.9293	.3652-02	.6389-02	.4110	2.552	568.6
250	67.500	.90000	793.00	.6470-01	.4280-01	.8210-01	.9293	.2373-02	.4553-02	.2390	1.514	580.4
250	78.000	.27000	794.00	.7020-01	.4960-01	.8500-01	.9290	.2750-02	.4712-02	.3190	2.256	565.0
250	78.000	.29000	795.00	.1090	.7640-01	.1328	.9290	.4235-02	.7364-02	.4820	2.938	567.3
71	78.000	.30000	796.00	.3460-01	.2810-01	.4170-01	.9131	.1259-02	.1867-02	.2500	1.515	545.9
71	78.000	.31000	797.00	.3650-01	.2970-01	.4390-01	.9131	.1329-02	.1967-02	.2650	1.607	545.1
71	78.000	.32000	798.00	.3810-01	.3100-01	.4580-01	.9131	.1388-02	.2052-02	.2770	1.675	544.5
71	78.000	.32500	799.00	.3880-01	.3160-01	.4670-01	.9131	.1415-02	.2092-02	.2830	1.714	544.3
71	78.000	.33000	800.00	.3850-01	.3130-01	.4630-01	.9131	.1404-02	.2073-02	.2820	1.704	544.0
71	78.000	.33500	801.00	.4050-01	.3300-01	.4870-01	.9131	.1476-02	.2181-02	.2960	1.789	544.2
71	78.000	.34000	802.00	.3870-01	.3160-01	.4660-01	.9131	.1414-02	.2085-02	.2840	1.719	543.6
71	78.000	.34500	803.00	.4030-01	.3280-01	.4840-01	.9131	.1471-02	.2169-02	.2950	1.793	543.6
71	78.000	.35000	804.00	.3990-01	.3250-01	.4800-01	.9131	.1458-02	.2150-02	.2930	1.778	543.5
71	78.000	.35500	805.00	.4120-01	.3360-01	.4950-01	.9131	.1504-02	.2217-02	.3030	1.838	543.2
71	78.000	.36000	806.00	.3830-01	.3120-01	.4600-01	.9131	.1398-02	.2061-02	.2810	1.709	543.5
71	78.000	.36500	807.00	.3980-01	.3250-01	.4790-01	.9131	.1455-02	.2144-02	.2930	1.786	543.3
71	78.000	.37000	808.00	.3950-01	.3220-01	.4740-01	.9131	.1441-02	.2124-02	.2900	1.774	543.3
71	78.000	.37500	809.00	.4050-01	.3300-01	.4870-01	.9131	.1479-02	.2181-02	.2970	1.821	543.4
71	78.000	.38000	810.00	.3930-01	.3200-01	.4720-01	.9131	.1435-02	.2116-02	.2880	1.775	543.5
71	78.000	.39000	811.00	.3210-01	.2620-01	.3860-01	.9131	.1172-02	.1729-02	.2350	1.453	543.6
71	78.000	.40000	812.00	.3460-01	.2820-01	.4160-01	.9131	.1263-02	.1863-02	.2540	1.568	543.4
250	90.000	.40000-01	985.00	.4439	.3417	.4302	.9553	.1529-01	.1925-01	2.460	15.74	580.2
250	90.000	.50000-01	986.00	.4080	.3177	.4038	.9518	.1422-01	.1807-01	2.379	15.18	573.8
250	90.000	.60000-01	987.00	.3522	.2694	.3557	.9484	.1206-01	.1592-01	1.901	12.29	583.4
250	90.000	.80000-01	989.00	.2798	.2169	.2934	.9420	.9707-02	.1313-01	1.601	11.17	576.2
250	90.000	.15000	991.00	.1148	.9120-01	.1327	.9239	.4080-02	.5939-02	.7350	5.357	561.0
71	90.000	.20000	813.00	.3120-01	.2540-01	.3750-01	.9133	.1139-02	.1678-02	.2290	1.666	543.5
71	90.000	.24000	814.00	.2260-01	.1840-01	.2720-01	.9130	.8225-03	.1217-02	.1640	1.330	544.7
71	90.000	.27000	816.00	.1500-01	.1220-01	.1810-01	.9130	.5467-03	.8128-03	.1080	.7690	546.6
71	90.000	.29000	817.00	.1910-01	.1550-01	.2300-01	.9130	.6965-03	.1032-02	.1390	.8620	545.4
71	90.000	.30000	818.00	.2800-01	.2280-01	.3380-01	.9130	.1022-02	.1514-02	.2040	1.247	545.0
71	90.000	31000	819.00	.3090-01	.2520-01	.3720-01	.9130	.1127-02	.1666-02	.2260	1.369	544.3
71	90.000	.32000	820.00	.3530-01	.2880-01	.4250-01	.9130	.1289-02	.1904-02	.2590	1.565	543.9
71	90.000	.32500	821.00	.3620-01	.2950-01	.4360-01	.9130	.1323-02	.1951-02	.2660	1.609	543.2
71	90.000	.33000	822.00	.3700-01	.3020-01	.4450-01	.9130	.1352-02	.1992-02	.2720	1.650	542.9
71	90.000	.33500	823.00	.3640-01	.2970-01	.4370-01	.9130	.1329-02	.1958-02	.2680	1.629	542.6
71	90.000	.34000	824.00	.3720-01	.3040-01	.4470-01	.9130	.1361-02	.2004-02	.2750	1.659	542.6
71	90.000	.34500	825.00	.3810-01	.3110-01	.4580-01	.9130	.1393-02	.2051-02	.2810	1.704	542.5
71	90.000	.35000	826.00	.3860-01	.3150-01	.4640-01	.9130	.1410-02	.2076-02	.2850	1.725	542.5
71	90.000	.36000	828.00	.3410-01	.2780-01	.4090-01	.9130	.1244-02	.1833-02	.2510	1.515	542.8
71	90.000	.37000	830.00	.3530-01	.2880-01	.4240-01	.9130	.1292-02	.1900-02	.2610	1.588	542.1

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F22)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
71	90.000	.37500	831.00	.3620-01	.2950-01	.4340-01	.9130	.1323-02	.1945-02	.2680	1.637	541.9
71	90.000	.38000	832.00	.3460-01	.2830-01	.4160-01	.9130	.1266-02	.1864-02	.2560	1.562	542.5
71	90.000	.39000	833.00	.3000-01	.2440-01	.3600-01	.9130	.1095-02	.1611-02	.2210	1.367	542.3
71	90.000	.40000	834.00	.3470-01	.2830-01	.4170-01	.9130	.1268-02	.1867-02	.2560	1.586	542.5
71	90.000	.50000	835.00	.3340-01	.2710-01	.4030-01	.9130	.1213-02	.1804-02	.2400	1.517	546.6
71	90.000	.60000	836.00	.2660-01	.2170-01	.3190-01	.9130	.9736-03	.1429-02	.1980	1.322	541.2
71	90.000	.70000	837.00	.3060-01	.2500-01	.3680-01	.9130	.1118-02	.1648-02	.2250	1.588	543.1
71	90.000	.80000	838.00	.2870-01	.2350-01	.3430-01	.9130	.1053-02	.1538-02	.2160	1.349	539.1
71	90.000	.90000	839.00	.2120-01	.1740-01	.2540-01	.9130	.7788-03	.1139-02	.1590	1.023	539.7
71	112.50	.23000	840.00	.2280-01	.1860-01	.2740-01	.9130	.8330-03	.1229-02	.1670	1.351	543.6
71	112.50	.25000	841.00	.6700-02	.5500-02	.8100-02	.9130	.2444-03	.3608-03	.4900-01	.3810	543.7
71	112.50	.27000	842.00	.1900-02	.1500-02	.2300-02	.9130	.6867-04	.1015-03	.1400-01	.9600-01	544.4
71	112.50	.30000	843.00	.2060-01	.1680-01	.2480-01	.9130	.7519-03	.1110-02	.1510	.8990	543.8
71	112.50	.33000	844.00	.2240-01	.1830-01	.2690-01	.9130	.8200-03	.1205-02	.1660	1.005	541.6
71	112.50	.35000	845.00	.2680-01	.2180-01	.3210-01	.9130	.9787-03	.1438-02	.1980	1.219	541.7
71	112.50	.37000	846.00	.2850-01	.2330-01	.3420-01	.9130	.1042-02	.1531-02	.2110	1.306	541.6
71	112.50	.40000	847.00	.3100-01	.2530-01	.3720-01	.9130	.1135-02	.1666-02	.2300	1.440	541.3
71	112.50	.45000	848.00	.2970-01	.2420-01	.3560-01	.9130	.1085-02	.1594-02	.2200	1.385	541.8
71	112.50	.50000	849.00	.2960-01	.2410-01	.3570-01	.9130	.1080-02	.1598-02	.2160	1.388	544.7
71	112.50	.55000	850.00	.2400-01	.1960-01	.2890-01	.9130	.8762-03	.1295-02	.1760	1.175	544.0
71	112.50	.60000	851.00	.2680-01	.2190-01	.3210-01	.9130	.9803-03	.1438-02	.2000	1.341	540.9
71	112.50	.65000	852.00	.2730-01	.2230-01	.3270-01	.9130	.1000-02	.1467-02	.2040	1.389	540.8
71	112.50	.70000	853.00	.3200-01	.2610-01	.3850-01	.9130	.1168-02	.1724-02	.2350	1.651	543.4
71	112.50	.75000	854.00	.2190-01	.1780-01	.2630-01	.9130	.7996-03	.1176-02	.1620	1.051	542.2
71	112.50	.80000	855.00	.2430-01	.1990-01	.2910-01	.9130	.8925-03	.1305-02	.1830	1.194	539.5
71	112.50	.90000	856.00	.1200-01	.9800-02	.1440-01	.9130	.4412-03	.6467-03	.9000-01	.5850	540.6
71	125.40	.84000	857.00	.2140-01	.1750-01	.2560-01	.9130	.7858-03	.1146-02	.1620	1.006	538.2
71	125.40	.85000	858.00	.2290-01	.1870-01	.2730-01	.9130	.8387-03	.1224-02	.1730	1.077	538.7
71	125.40	.86000	859.00	.2150-01	.1760-01	.2570-01	.9130	.7879-03	.1150-02	.1620	1.019	538.9
71	125.40	.87000	860.00	.2200-01	.1800-01	.2640-01	.9130	.8078-03	.1181-02	.1660	1.045	539.4
71	125.40	.88000	861.00	.2430-01	.1990-01	.2910-01	.9130	.8897-03	.1303-02	.1820	1.146	540.2
71	125.40	.89000	862.00	.2300-01	.1880-01	.2760-01	.9130	.8416-03	.1234-02	.1710	1.086	540.9
71	125.40	.90000	863.00	.1730-01	.1420-01	.2080-01	.9130	.6344-03	.9310-03	.1290	.8220	541.2
71	125.40	.91000	864.00	.7600-02	.6200-02	.9000-02	.9130	.2771-03	.4050-03	.5700-01	.4150	539.3
71	125.40	.92600	865.00	.9600-02	.7800-02	.1150-01	.9130	.3500-03	.5153-03	.7100-01	.5130	542.6
71	129.30	.80000	866.00	.2930-01	.2400-01	.3510-01	.9130	.1075-02	.1573-02	.2210	1.394	539.0
71	129.30	.81000	867.00	.2220-01	.1820-01	.2650-01	.9130	.8134-03	.1186-02	.1680	1.052	538.4
71	129.30	.82000	868.00	.2200-01	.1800-01	.2630-01	.9130	.8076-03	.1176-02	.1670	1.048	537.8
71	129.30	.83000	869.00	.2360-01	.1940-01	.2820-01	.9130	.8669-03	.1262-02	.1790	1.128	537.7
71	135.00	.40000-01	870.00	.3910	.3050	.3919	.9496	.1366-01	.1755-01	2.314	14.67	575.1
71	135.00	.50000-01	871.00	.4242	.3319	.4335	.9461	.1487-01	.1942-01	2.543	16.04	573.4
71	135.00	.60000-01	872.00	.3283	.2550	.3424	.9428	.1142-01	.1534-01	1.904	12.45	577.7
71	135.00	.70000-01	873.00	.2744	.2148	.2910	.9397	.9624-02	.1304-01	1.651	11.09	572.9

(RV7F22)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
71	135.00	.10000+00	875.00	.1860	.1484	.2056	.9311	.6647-02	.9212-02	1.224	7.978	560.3
71	135.00	.15000	876.00	.9340-01	.7520-01	.1091	.9202	.3369-02	.4888-02	.6440	4.701	553.1
71	135.00	.20000	877.00	.4090-01	.3340-01	.4880-01	.9138	.1494-02	.2187-02	.3030	2.045	541.9
71	135.00	.35000	878.00	.1850-01	.1510-01	.2220-01	.9130	.6777-03	.9946-03	.1380	.8580	541.2
71	135.00	.40000	879.00	.2310-01	.1890-01	.2780-01	.9130	.8468-03	.1244-02	.1720	1.092	541.4
71	135.00	.50000	880.00	.2330-01	.1900-01	.2810-01	.9130	.8507-03	.1258-02	.1700	1.169	544.5
71	135.00	.55000	881.00	.1930-01	.1570-01	.2320-01	.9130	.7024-03	.1037-02	.1410	.9400	543.9
71	135.00	.60000	882.00	.2470-01	.2020-01	.2960-01	.9130	.9062-03	.1328-02	.1850	1.246	540.5
71	135.00	.65000	883.00	.2160-01	.1770-01	.2590-01	.9130	.7922-03	.1159-02	.1620	1.111	539.6
71	135.00	.70000	884.00	.2300-01	.1880-01	.2760-01	.9130	.8412-03	.1236-02	.1710	1.216	541.6
71	135.00	.75000	885.00	.2200-01	.1800-01	.2630-01	.9130	.8045-03	.1180-02	.1640	1.035	540.8
250	135.00	.80000	886.00	.9460-01	.6650-01	.1164	.9278	.3682-02	.6449-02	.4220	2.625	566.4
250	135.00	.84000	887.00	.7590-01	.5980-01	.9460-01	.9130	.2678-02	.4234-02	.0000	.0000	244.7
250	135.00	.85000	888.00	.2050-01	.1640-01	.2510-01	.9130	.7357-03	.1121-02	.1380	.8710	553.6
250	135.00	.87000	890.00	.2260-01	.1810-01	.2770-01	.9130	.8102-03	.1237-02	.1510	.9580	554.3
250	135.00	.88000	891.00	.2160-01	.1720-01	.2650-01	.9130	.7714-03	.1185-02	.1420	.9070	556.4
250	135.00	.99000	892.00	.2110-01	.1680-01	.2590-01	.9130	.7523-03	.1158-02	.1380	.8960	557.1
250	135.00	.91000	894.00	.7100-02	.5600-02	.8700-02	.9130	.2519-03	.3881-03	.4600-01	.3360	557.5
250	135.00	.92600	895.00	.1210-01	.9700-02	.1490-01	.9130	.4332-03	.6684-03	.7900-01	.5740	557.9
250	135.00	.95000	896.00	.1910-01	.1520-01	.2340-01	.9130	.6811-03	.1048-02	.1250	.9020	556.9
250	142.30	.42000	897.00	.2390-01	.1940-01	.2890-01	.9130	.8672-03	.1294-02	.1690	1.090	545.8
250	142.30	.43500	898.00	.2770-01	.2250-01	.3350-01	.9130	.1006-02	.1499-02	.1970	1.234	545.0
250	142.30	.45000	899.00	.2580-01	.2090-01	.3120-01	.9130	.9349-03	.1398-02	.1820	1.192	546.3
250	142.30	.50000	900.00	.2430-01	.1960-01	.2960-01	.9130	.6767-03	.1324-02	.1670	1.113	550.2
250	142.30	.60000	901.00	.2450-01	.1980-01	.2980-01	.9130	.8846-03	.1332-02	.1700	1.127	549.0
250	142.30	.70000	902.00	.2210-01	.1770-01	.2710-01	.9130	.7941-03	.1212-02	.1480	1.009	554.2
250	142.30	.80000	903.00	.2480-01	.1990-01	.3030-01	.9130	.8907-03	.1356-02	.1670	1.060	553.3
250	142.30	.87000	904.00	.2460-01	.1970-01	.3010-01	.9130	.8801-03	.1346-02	.1640	1.032	554.9
250	154.98	.42000	905.00	.2280-01	.1950-01	.2760-01	.9130	.8289-03	.1236-02	.1620	1.048	545.3
250	154.98	.43500	906.00	.2210-01	.1790-01	.2680-01	.9130	.8017-03	.1198-02	.1560	1.013	546.3
250	154.98	.45000	907.00	.2660-01	.2150-01	.3220-01	.9130	.9635-03	.1442-02	.1870	1.222	546.7
250	154.98	.50000	908.00	.3050-01	.2460-01	.3700-01	.9130	.1103-02	.1658-02	.2140	1.527	552.9
250	154.98	.93500	913.00	.1440-01	.1140-01	.1770-01	.9130	.5121-03	.7914-03	.9400-01	.6760	558.4
250	154.98	.94500	914.00	.1430-01	.1140-01	.1760-01	.9130	.5098-03	.7862-03	.9300-01	.6690	557.7
250	157.50	.70000-01	918.00	.2455	.1915	.2632	.9381	.8568-02	.1178-01	1.442	9.898	572.8
250	157.50	.80000-01	919.00	.2213	.1736	.2409	.9352	.7771-02	.1078-01	1.338	9.031	568.9
250	157.50	.10000+00	920.00	.1698	.1348	.1898	.9297	.6032-02	.8492-02	1.085	7.193	561.3
250	157.50	.20000	922.00	.3360-01	.2730-01	.4040-01	.9134	.1221-02	.1809-02	.2410	1.606	543.9
250	157.50	.42000	923.00	.1470-01	.1190-01	.1770-01	.9130	.5319-03	.7920-0?	.1040	.6820	54? 8
250	157.50	.43500	924.00	.1720-01	.1400-01	.2080-01	.9130	.6254-03	.9320-	.1230	.8030	545
250	157.50	.45000	925.00	.2010-01	.1630-01	.2430-01	.9130	.7278-03	.1088-0c	.1420	.9370	[illegible]
250	157.50	.85000	926.00	.1720-01	.1380-01	.2110-01	.9130	.6168-03	.9427-03	.1150	.7410	55?.6
250	157.50	.86000	927.00	.1630-01	.1300-01	.2000-01	.9130	.5836-03	.8933-03	.1090	.7010	555.1

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
250	157.50	.87000	928.00	.1680-01	.1340-01	.2060-01	.9130	.6003-03	.9198-03	.1110	.7220	555.4
250	157.50	.88000	929.00	.1740-01	.1390-01	.2140-01	.9130	.6223-03	.9569-03	.1150	.7470	556.7
250	157.50	.89000	930.00	.1720-01	.1370-01	.2110-01	.9130	.6127-03	.9463-03	.1120	.7330	558.2
250	157.50	.90000	931.00	.1200-01	.9500-02	.1480-01	.9130	.4272-03	.6605-03	.7800-01	.5230	558.6
250	157.50	.92600	933.00	.8800-02	.7000-02	.1080-01	.9130	.3124-03	.4836-03	.5700-01	.4120	559.1
250	163.12	.41500	934.00	.1260-01	.1040-01	.1550-01	.9130	.4666-03	.6923-03	.9200-01	.5990	543.4
250	163.12	.42000	935.00	.1230-01	.1000-01	.1480-01	.9130	.4464-03	.6645-03	.8800-01	.5740	544.7
250	163.12	.43000	937.00	.1390-01	.1130-01	.1680-01	.9130	.5055-03	.7532-03	.9900-01	.6510	545.1
250	163.12	.44000	938.00	.1640-01	.1330-01	.1990-01	.9130	.5958-03	.8896-03	.1160	.7610	545.9
250	163.12	.44500	939.00	.1670-01	.1350-01	.2020-01	.9130	.6039-03	.9022-03	.1180	.7820	546.1
250	163.12	.45000	940.00	.1740-01	.1410-01	.2110-01	.9130	.6322-03	.9452-03	.1230	.8180	546.4
250	163.12	.50000	941.00	.2330-01	.1880-01	.2830-01	.9130	.8396-03	.1267-02	.1600	1.086	550.0
250	163.12	.60000	942.00	.2620-01	.2110-01	.3180-01	.9130	.9445-03	.1424-02	.1810	1.164	549.7
250	163.12	.70000	943.00	.2150-01	.1720-01	.2630-01	.9130	.7718-03	.1178-02	.1440	.9870	554.2
250	163.12	.80000	944.00	.1890-01	.1520-01	.2320-01	.9130	.6781-03	.1038-02	.1260	.8190	555.2
250	168.00	.35000	945.00	.7500-02	.6100-02	.9000-02	.9130	.2722-03	.4016-03	.5400-01	.3460	541.1
250	168.00	.36000	946.00	.6900-02	.5600-02	.8300-02	.9130	.2527-03	.3722-03	.5100-01	.3240	540.3
250	168.00	.37000	947.00	.6900-02	.5600-02	.8300-02	.9130	.2499-03	.3693-03	.5000-01	.3190	541.7
250	168.00	.37500	948.00	.6600-02	.5400-02	.7900-02	.9130	.2405-03	.3556-03	.4800-01	.3060	541.8
250	168.00	.38500	950.00	.6400-02	.5200-02	.7700-02	.9130	.2321-03	.3425-03	.4600-01	.3000	541.0
250	168.00	.39000	951.00	.8000-02	.6500-02	.9600-02	.9130	.2911-03	.4304-03	.5800-01	.3770	541.8
250	168.00	.39500	952.00	.8200-02	.6700-02	.9900-02	.9130	.2984-03	.4415-03	.5900-01	.3800	542.2
250	168.00	.40000	953.00	.8300-02	.6700-02	.1000-01	.9130	.3011-03	.4463-03	.6000-01	.3890	543.0
250	168.00	.40500	954.00	.9000-02	.7300-02	.1080-01	.9130	.3272-03	.4854-03	.6500-01	.4230	543.4
250	168.00	.41000	955.00	.9900-02	.8000-02	.1190-01	.9130	.3597-03	.5343-03	.7100-01	.4640	543.8
250	168.00	.41500	956.00	.9900-02	.8100-02	.1200-01	.9130	.3607-03	.5360-03	.7100-01	.4660	544.0
250	168.00	.42000	957.00	.1070-01	.8700-02	.1290-01	.9130	.3872-03	.5758-03	.7600-01	.5010	544.3
250	168.00	.42500	958.00	.1300-01	.1060-01	.1570-01	.9130	.4730-03	.7043-03	.9300-01	.6100	544.8
250	168.00	.43000	959.00	.1050-01	.8500-02	.1270-01	.9130	.3823-03	.5697-03	.7500-01	.4910	545.1
250	168.00	.44000	960.00	.1360-01	.1110-01	.1650-01	.9130	.4947-03	.7378-03	.9700-01	.6360	545.4
250	168.00	.44500	961.00	.1410-01	.1150-01	.1710-01	.9130	.5127-03	.7658-03	.1000+00	.6570	546.0
250	168.00	.45500	963.00	.1600-01	.1300-01	.1940-01	.9130	.5811-03	.8692-03	.1130	.7460	546.6
250	168.00	.46000	964.00	.1720-01	.1390-01	.2080-01	.9130	.6217-03	.9320-03	.1200	.7990	547.5
250	168.00	.47000	965.00	.1750-01	.1410-01	.2120-01	.9130	.6325-03	.9497-03	.1220	.8130	548.1
250	168.00	.48000	966.00	.1970-01	.1590-01	.2400-01	.9130	.7130-03	.1074-02	.1370	.9180	549.3
250	168.00	.49000	967.00	.2190-01	.1770-01	.2650-01	.9130	.7903-03	.1186-02	.1530	1.026	547.9
250	168.00	.85000	968.00	.1630-01	.1300-01	.2000-01	.9130	.5832-03	.8936-03	.1080	.6990	555.5
250	168.00	.86000	969.00	.1620-01	.1290-01	.1990-01	.9130	.5787-03	.8889-03	.1070	.6920	556.3
250	168.00	.87000	970.00	.1510-01	.1210-01	.1850-01	.9130	.5396-03	.8300-03	.9900-01	.6460	556.8
250	168.00	.88000	971.00	.1630-01	.1300-01	.2010-01	.9130	.5833-03	.9012-03	.1070	.6940	558.3
250	168.00	.89000	972.00	.1690-01	.1350-01	.2090-01	.9130	.6035-03	.9362-03	.1100	.7230	559.7
250	168.00	.90000	973.00	.1120-01	.8900-02	.1380-01	.9130	.3994-03	.6173-03	.7300-01	.4940	558.4
250	168.00	.91000	974.00	.3000-02	.2400-02	.3700-02	.9130	.1073-03	.1659-03	.2000-01	.1420	558.5

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ST

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
250	168.00	.92600	975.00	.7600-02	.6100-02	.9400-02	.9130	.2721-03	.4222-03	.4900-01	.3550	559.8
250	168.00	.95000	976.00	.1780-01	.1420-01	.2190-01	.9130	.6344-03	.9805-03	.1160	.8300	558.4
250	180.00	.20000-01	982.00	.4220-01	.3420-01	.4170-01	.9524	.1530-02	.1866-02	.3000	2.085	545.2
250	180.00	.25000-01	983.00	.8390-01	.6770-01	.8370-01	.9505	.3031-02	.3744-02	.5840	4.034	548.3
250	180.00	.30000-01	984.00	.2345	.1845	.2360	.9488	.8257-02	.1056-01	1.435	9.755	567.3
69	180.00	.40000-01	600.00	.3589	.2795	.3644	.9473	.1252-01	.1633-01	2.107	13.35	575.8
69	180.00	.50000-01	601.00	.3899	.3039	.4038	.9439	.1362-01	.1809-01	2.298	14.61	575.2
69	180.00	.60000-01	602.00	.3380	.2594	.3584	.9407	.1182-01	.1606-01	1.857	12.14	584.2
69	180.00	.70000-01	603.00	.2526	.1967	.2719	.9375	.8812-02	.1218-01	1.481	9.957	576.0
69	180.00	.80000-01	604.00	.2299	.1803	.2511	.9346	.8077-02	.1125-01	1.393	8.950	571.5
69	180.00	.10000+00	605.00	.1564	.1238	.1757	.9292	.5545-02	.7869-02	.9880	7.026	565.8
69	180.00	.15000	606.00	.7390-01	.5910-01	.8760-01	.9188	.2648-02	.3923-02	.4920	3.559	558.1
69	180.00	.20000	607.00	.3080-01	.2500-01	.3720-01	.9133	.1118-02	.1666-02	.2190	1.431	547.8
69	180.00	.21000	608.00	.2010-01	.1630-01	.2430-01	.9130	.7298-03	.1089-02	.1430	.9890	547.9
69	180.00	.22000	609.00	.1500-01	.1210-01	.1810-01	.9130	.5423-03	.8111-03	.1060	.7870	548.7
69	180.00	.35000	611.00	.4600-02	.3700-02	.5500-02	.9130	.1658-03	.2459-03	.3300-01	.2190	545.4
69	180.00	.37000	613.00	.5700-02	.4700-02	.6900-02	.9130	.2092-03	.3106-03	.4100-01	.2790	545.8
69	180.00	.38000	615.00	.5000-02	.4000-02	.6000-02	.9130	.1809-03	.2685-03	.3600-01	.2410	545.5
69	180.00	.39000	617.00	.5500-02	.4400-02	.6600-02	.9130	.1989-03	.2952-03	.3900-01	.2640	545.7
69	180.00	.39500	618.00	.5500-02	.4400-02	.6600-02	.9130	.1989-03	.2953-03	.3900-01	.2660	545.8
69	180.00	.40000	619.00	.6300-02	.5100-02	.7600-02	.9130	.2305-03	.3424-03	.4600-01	.3060	545.9
69	180.00	.40500	620.00	.6800-02	.5500-02	.8200-02	.9130	.2465-03	.3662-03	.4900-01	.3280	545.9
69	180.00	.41000	621.00	.8500-02	.6900-02	.1020-01	.9130	.3085-03	.4585-03	.6100-01	.4100	546.2
69	180.00	.41500	622.00	.9400-02	.7600-02	.1130-01	.9130	.3417-03	.5077-03	.6800-01	.4530	546.1
69	180.00	.42500	624.00	.1030-01	.8400-02	.1250-01	.9130	.3753-03	.5594-03	.7400-01	.4940	547.3
69	180.00	.43000	625.00	.8200-02	.6700-02	.9900-02	.9130	.2993-03	.4456-03	.5900-01	.3970	546.8
69	180.00	.44000	626.00	.9600-02	.7800-02	.1160-01	.9130	.3485-03	.5193-03	.6900-01	.4610	547.2
69	180.00	.44500	627.00	.1040-01	.8400-02	.1250-01	.9130	.3772-03	.5619-03	.7400-01	.5040	547.1
69	180.00	.45000	628.00	.9600-02	.7800-02	.1160-01	.9130	.3491-03	.5203-03	.6900-01	.4660	547.3
69	180.00	.45500	629.00	.1020-01	.8300-02	.1230-01	.9130	.3704-03	.5516-03	.7300-01	.5020	547.0
69	180.00	.46000	630.00	.1090-01	.8800-02	.1310-01	.9130	.3949-03	.5881-03	.7800-01	.5230	547.0
69	180.00	.47000	631.00	.1250-01	.1010-01	.1510-01	.9130	.4524-03	.6751-03	.8900-01	.5960	547.8
69	180.00	.49000	633.00	.1570-01	.1270-01	.1900-01	.9130	.5698-03	.8522-03	.1110	.7590	548.7
69	180.00	.50000	634.00	.1450-01	.1170-01	.1760-01	.9130	.5254-03	.7868-03	.1020	.7160	549.1
69	180.00	.55000	635.00	.1490-01	.1200-01	.1800-01	.9130	.5378-03	.8070-03	.1040	.6920	550.0
69	180.00	.60000	636.00	.1960-01	.1590-01	.2370-01	.9130	.7121-03	.1062-02	.1400	.9010	547.7
69	180.00	.65000	637.00	.2160-01	.1750-01	.2610-01	.9130	.7857-03	.1171-02	.1550	1.000	547.2
69	180.00	.70000	638.00	.1790-01	.1450-01	.2170-01	.9130	.6477-03	.9708-03	.1260	.8610	549.6
69	180.00	.75000	639.00	.1420-01	.1150-01	.1720-01	.9130	.5161-03	.7713-03	.1010	.6510	548.4
69	180.00	.80000	640.00	.1600-01	.1300-01	.1940-01	.9130	.5823-03	.8695-03	.1140	.7150	548.1
69	180.00	.85000	641.00	.1580-01	.1280-01	.1910-01	.9130	.5714-03	.8549-03	.1120	.7040	548.8
69	180.00	.86000	642.00	.1660-01	.1340-01	.2010-01	.9130	.6015-03	.9008-03	.1170	.7500	549.2
69	180.00	.87000	643.00	.1680-01	.1360-01	.2040-01	.9130	.6103-03	.9144-03	.1190	.7650	549.4

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F22)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
69	180.00	.88000	644.00	.1683-01	.1360-01	.2040-01	.9130	.6093-03	.9139-03	.1180	.7690	549.8
69	180.00	.89000	645.00	.1860-01	.1500-01	.2260-01	.9130	.6737-03	.1013-02	.1300	.8550	550.8
69	180.00	.90000	646.00	.8200-02	.6600-02	.1000-01	.9130	.2978-03	.4462-03	.5800-01	.3890	549.5
69	180.00	.92600	648.00	.1050-01	.8500-02	.1270-01	.9130	.3814-03	.5698-03	.7500-01	.5440	548.3
69	180.00	.95000	649.00	.2460-01	.1990-01	.2980-01	.9130	.8910-03	.1333-02	.1740	1.255	548.8
69	191.25	.35000	650.00	.1120-01	.9100-02	.1350-01	.9130	.4057-03	.6032-03	.8000-01	.5390	546.3
69	191.25	.36000	651.00	.6500-02	.5200-02	.7800-02	.9130	.2352-03	.3498-03	.4600-01	.3130	546.4
69	191.25	.37000	652.00	.6400-02	.5200-02	.7700-02	.9130	.2316-03	.3445-03	.4600-01	.3070	546.6
69	191.25	.37500	653.00	.5700-02	.4700-02	.6900-02	.9130	.2088-03	.3106-03	.4100-01	.2780	546.6
69	191.25	.38000	654.00	.5900-02	.4800-02	.7200-02	.9130	.2160-03	.3213-03	.4300-01	.2880	546.4
69	191.25	.38500	655.00	.5200-02	.4200-02	.6300-02	.9130	.1885-03	.2803-03	.3700-01	.2510	546.4
69	191.25	.39000	656.00	.5600-02	.4500-02	.6700-02	.9130	.2026-03	.3014-03	.4000-01	.2700	546.4
69	191.25	.39500	657.00	.5800-02	.4700-02	.7000-02	.9130	.2093-03	.3119-03	.4100-01	.2780	547.1
69	191.25	.40000	658.00	.4700-02	.3800-02	.5600-02	.9130	.1691-03	.2517-03	.3300-01	.2250	546.9
69	191.25	.40500	659.00	.8100-02	.6600-02	.9800-02	.9130	.2950-03	.4393-03	.5800-01	.3930	547.0
69	191.25	.41000	660.00	.7400-02	.6000-02	.8900-02	.9130	.2680-03	.3988-03	.5300-01	.3570	546.6
69	191.25	.41500	661.00	.1020-01	.8300-02	.1230-01	.9130	.3704-03	.5511-03	.7300-01	.4910	546.6
69	191.25	.42000	662.00	.9000-02	.7300-02	.1090-01	.9130	.3275-03	.4881-03	.6400-01	.4340	547.3
69	191.25	.42500	663.00	.9500-02	.7700-02	.1150-01	.9130	.3463-03	.5156-03	.6800-01	.4610	546.9
69	191.25	.43000	664.00	.9700-02	.7800-02	.1170-01	.9130	.3507-03	.5225-03	.6900-01	.4710	547.2
69	191.25	.44000	665.00	.1010-01	.8200-02	.1220-01	.9130	.3680-03	.5486-03	.7200-01	.4900	547.5
69	191.25	.45000	666.00	.1250-01	.1010-01	.1510-01	.9130	.4521-03	.6752-03	.8900-01	.6000	548.1
69	191.25	.45500	667.00	.1280-01	.1030-01	.1540-01	.9130	.4637-03	.6918-03	.9100-01	.6170	547.7
69	191.25	.46000	668.00	.1280-01	.1040-01	.1550-01	.9130	.4658-03	.6947-03	.9200-01	.6220	547.6
69	191.25	.47000	669.00	.1420-01	.1150-01	.1720-01	.9130	.5156-03	.7692-03	.1010	.6910	547.7
69	191.25	.48000	670.00	.6000-02	.4800-02	.7200-02	.9130	.2165-03	.3239-03	.4200-01	.2880	548.9
69	191.25	.49000	671.00	.1590-01	.1280-01	.1920-01	.9130	.5742-03	.8612-03	.1120	.7580	549.8
69	191.25	.50000	672.00	.2150-01	.1740-01	.2600-01	.9130	.7775-03	.1165-02	.1510	1.051	549.3
69	191.25	.60000	673.00	.2560-01	.2070-01	.3090-01	.9130	.9277-03	.1385-02	.1820	1.165	548.0
69	191.25	.70000	674.00	.2100-01	.1700-01	.2540-01	.9130	.7605-03	.1140-02	.1480	1.005	549.6
69	191.25	.85000	676.00	.1870-01	.1510-01	.2260-01	.9130	.6785-03	.1014-02	.1330	.8370	548.6
69	191.25	.86000	677.00	.1780-01	.1440-01	.2160-01	.9130	.6454-03	.9664-03	.1260	.8030	549.1
69	191.25	.87000	678.00	.2040-01	.1650-01	.2480-01	.9130	.7405-03	.1109-02	.1440	.9290	549.2
69	191.25	.88000	679.00	.2000-01	.1620-01	.2430-01	.9130	.7251-03	.1088-02	.1410	.9170	549.9
69	191.25	.89000	680.00	.1990-01	.1600-01	.2410-01	.9130	.7186-03	.1080-02	.1390	.9190	550.6
69	191.25	.90000	681.00	.1390-01	.1120-01	.1680-01	.9130	.5019-03	.7541-03	.9700-01	.6540	550.5
69	.91.25	.91000	682.00	.1400-02	.1100-02	.1700-02	.9130	.5092-04	.7611-04	.1000-01	.7300-01	548.5
69	191.25	.92600	683.00	.9100-02	.7300-02	.1100-01	.9130	.3292-03	.4930-03	.6400-01	.4690	549.3
69	191.25	.95000	684.00	.2150-01	.1740-01	.2600-01	.9130	.7804-03	.1166-02	.1530	1.103	548.2
69	197.00	.33000	685.00	.8300-02	.6700-02	.1000-01	.9130	.3015-03	.4481-03	.6000-01	.4010	546.2
69	197.00	.34000	686.00	.6600-02	.5400-02	.8000-02	.9130	.2415-03	.3589-03	.4800-01	.3210	546.2
69	197.00	.35000	687.00	.6200-02	.5000-02	.7400-02	.9130	.2244-03	.3331-03	.4500-01	.2990	545.7
69	197.00	.36000	688.00	.5900-02	.4800-02	.7100-02	.9130	.2155-03	.3203-03	.4300-01	.2870	546.2

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F22)

IH41(AEDC V41A-A4A) T3 NIPPLE NOSE ET

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
69	197.00	.37000	689.00	.6500-02	.5300-02	.7900-02	.9130	.2381-03	.3542-03	.4700-01	.3160	546.5
69	197.00	.37500	690.00	.1260-01	.1020-01	.1520-01	.9130	.4583-03	.6820-03	.9000-01	.6100	546.7
69	197.00	.50000	691.00	.2270-01	.1840-01	.2750-01	.9130	.8223-03	.1231-02	.1600	1.076	549.1
69	197.00	.60000	692.00	.2550-01	.2070-01	.3080-01	.9130	.9274-03	.1381-02	.1830	1.179	546.9
69	197.00	.70000	693.00	.1890-01	.1530-01	.2290-01	.9130	.6862-03	.1025-02	.1340	.9110	548.2
69	197.00	.80000	694.00	.2220-01	.1800-01	.2680-01	.9130	.8075-03	.1201-02	.1590	1.002	546.6
69	197.00	.87000	695.00	.2260-01	.1830-01	.2740-01	.9130	.8204-03	.1227-02	.1600	1.020	548.7
69	197.00	.92600	696.00	.1170-01	.9500-02	.1420-01	.9130	.4255-03	.6372-03	.8300-01	.6060	549.2
250	209.80	.15000-01	697.00	.2561	.1852	.3071	.9283	.1024-01	.1698-01	.0000	.0000	539.9
70	209.80	.30000-01	698.00	.2628	.2068	.2630	.9499	.9262-02	.1178-01	1.616	10.87	569.3
70	209.80	.50000-01	699.00	.4142	.3245	.4262	.9449	.1454-01	.1909-01	2.495	15.66	572.1
70	209.80	.70000-01	700.00	.2573	.2019	.2746	.9385	.9043-02	.1230-01	1.562	10.43	571.1
70	209.80	.10000+00	701.00	.1847	.1468	.2058	.9301	.6577-02	.9220-02	1.193	7.545	562.4
70	209.30	.15000	702.00	.7820-01	.6300-01	.9190-01	.9194	.2821-02	.4116-02	.5370	3.829	553.4
70	209.80	.20000	703.00	.3250-01	.2650-01	.3900-01	.9135	.1186-02	.1747-02	.2380	1.586	543.4
70	209.80	.30000	704.00	.9000-02	.7300-02	.1080-01	.9130	.3266-03	.4830-03	.6500-01	.4630	544.0
70	209.80	.35000	705.00	.8800-02	.7200-02	.1060-01	.9130	.3225-03	.4738-03	.6500-01	.4480	541.2
70	209.80	.37500	706.00	.7900-02	.6400-02	.9400-02	.9130	2880-03	.4228-03	.5800-01	.4030	540.8
70	209.80	.50000	707.00	.2400-01	.1950-01	.2890-01	.9130	.8727-03	.1295-02	.1730	1.186	545.4
70	209.80	.60000	708.00	.3540-01	.2900-01	.4240-01	.9130	.1298-02	.1901-02	.2650	1.694	539.8
70	209.80	.70000	709.00	.2540-01	.2070-01	.3050-01	.9130	.9270-03	.1368-02	.1860	1.188	543.1
70	209.80	.80000	710.00	.2660-01	.2180-01	.3190-01	.9130	.9752-03	.1427-02	.1990	1.247	539.4
70	209.80	.87000	711.00	.2150-01	.1750-01	.2580-01	.9130	.7842-03	.1154-02	.1580	1.003	541.9
70	209.80	.92600	712.00	.1090-01	.8900-02	.1320-01	.9130	.3989-03	.5905-03	.8000-01	.5790	544.3
70	217.70	.30000-01	714.00	.2798	.2194	.2791	.9504	.9827-02	.1250-01	1.692	11.37	571.5
70	217.70	.50000-01	715.00	.4206	.3289	.4314	.9455	.1474-01	.1933-01	2.515	16.19	573.1
70	217.70	.70000-01	716.00	.2578	.2017	.2745	.9391	.9036-02	.1230-01	1.544	10.40	572.9
70	217.70	.10000+00	717.00	.1801	.1433	.2000	.9306	.6421-02	.8960-02	1.170	7.531	561.6
70	217.70	.15000	718.00	.8300-01	.6680-01	.9730-01	.9198	.2993-02	.4359-02	.5700	4.159	553.3
70	217.70	.20000	719.00	.3380-01	.2760-01	.4050-01	.9137	.1236-02	.1815-02	.2490	1.682	542.4
70	217.70	.30000	720.00	.1000-01	.8100-02	.1200-01	.9130	.3645-03	.5394-03	.7300-01	.5210	544.2
70	217.70	.35000	721.00	.1020-01	.8300-02	.1220-01	.9130	.3718-03	.5464-03	.7500-01	.5230	541.3
70	217.70	.37500	722.00	.1080-01	.8800-02	.1290-01	.9130	.3934-03	.5783-03	.8000-01	.5530	541.4
70	217.70	.50000	723.00	.2390-01	.1950-01	.2880-01	.9130	.8715-03	.1292-02	.1730	1.198	545.0
70	217.70	.60000	724.00	.2620-01	.2140-01	.3140-01	.9130	.9593-03	.1407-02	.1950	1.251	540.4
70	217.70	.70000	725.00	.2700-01	.2200-01	.3250-01	.9130	.9871-03	.1456-02	.1980	1.262	543.0
70	217.70	.80000	726.00	.2820-01	.2310-01	.3380-01	.9130	.1035-02	.1514-02	.2120	1.336	539.2
70	217.70	.87000	727.00	.2560-01	.2090-01	.3070-01	.9130	.9365-03	.1377-02	.1900	1.215	541.4
70	217.70	.92600	728.00	.1250-01	.1010-01	.1500-01	.9130	.4545-03	.6724-03	.9100-01	.6610	544.1

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7FE3)

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = .0000 BETA = .0000 GRIT = 4.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
203	3.510	4.805	.1000-01	.0000	.0000	57.20	.7390	681.0	196.6	6.376	2412.	.3154-03
204	3.510	4.794	-.1000-01	.0000	.0000	57.10	.7380	682.0	196.8	6.368	2413.	.3148-03
205	3.510	4.791	.1000-01	.0000	.0000	57.10	.7380	682.0	196.8	6.363	2413.	.3146-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
203	.1583-06	.5547-01	.9272-02
204	.1584-06	.5545-01	.9282-02
205	.1584-06	.5542-01	.9286-02

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
204	.00000	.30000-02	730.00	.4206	.2885	.3496	.9721	.1599-01	.1939-01	1.735	11.76	573.2
204	.00000	.10300-01	731.00	.1300	.9770-01	.1523	.9278	.5416-02	.8445-02	.7430	5.126	544.4
204	.00000	.15000-01	732.00	.9500-01	.7190-01	.1109	.9278	.3984-02	.6151-02	.5570	3.796	542.0
204	.00000	.25000-01	734.00	.3036	.2144	.2672	.9664	.1189-01	.1482-01	1.378	9.284	565.8
204	.00000	.30000-01	735.00	.5507	.3608	.4771	.9647	.2001-01	.2645-01	1.978	13.30	582.8
204	.00000	.40000-01	737.00	.4983	.3414	.4447	.9631	.1893-01	.2466-01	2.049	13.19	573.4
204	.00000	.45000-01	738.00	.5142	.3532	.4660	.9613	.1958-01	.2584-01	2.131	13.93	572.8
204	.00000	.60000-01	739.00	.4088	.2754	.3855	.9562	.1527-01	.2138-01	1.596	10.56	577.2
204	.00000	.70000-01	740.00	.3791	.2582	.3685	.9530	.1432-01	.2043-01	1.530	10.21	574.8
204	.00000	.80000-01	741.00	.3188	.2194	.3186	.9501	.1217-01	.1767-01	1.329	9.543	572.4
204	.00000	.10000+00	742.00	.2885	.2046	.3016	.9447	.1134-01	.1673-01	1.328	8.795	564.6
204	.00000	.12500	743.00	.2056	.1439	.2269	.9391	.7977-02	.1253-01	.9060	6.516	568.1
204	.00000	.15000	744.00	.1714	.1233	.1948	.9346	.6836-02	.1080-01	.8310	5.735	560.2
204	.00000	.17500	745.00	.1157	.8480-01	.1341	.9313	.4700-02	.7436-02	.5980	4.481	554.3
204	.00000	.20000	746.00	.9080-01	.6720-01	.1065	.9291	.3728-02	.5903-02	.4890	3.493	550.5
204	.00000	.21500	747.00	.7140-01	.5310-01	.8390-01	.9283	.2944-02	.4654-02	.3920	2.712	548.6
204	.00000	.23000	748.00	.6070-01	.4510-01	.7180-01	.9279	.2499-02	.3979-02	.3310	2.440	549.5
204	.00000	.24000	749.00	.4990-01	.3700-01	.5900-01	.9278	.2049-02	.3272-02	.2700	2.032	550.0

(RV7F23)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
204	.00000	.25000	750.00	.2830-01	.2110-01	.3340-01	.9278	.1172-02	.1852-02	.1570	1.271	547.6
204	.00000	.30000	751.00	.5990-01	.4450-01	.7060-01	.9278	.2469-02	.3917-02	.3297	2.156	548.5
204	.00000	.35000	752.00	.6000-01	.4500-01	.7040-01	.9278	.2494-02	.3901-02	.3300	2.153	545.2
204	.00000	.40000	753.00	.7770-01	.5800-01	.9140-01	.9278	.3218-02	.5067-02	.4340	2.791	546.8
204	.00000	.50000	754.00	.7060-01	.5180-01	.8420-01	.9278	.2872-02	.4667-02	.3670	2.395	553.8
204	.00000	.60000	755.00	.4650-01	.3420-01	.5520-01	.9278	.1899-02	.3060-02	.2460	1.575	552.0
204	.00000	.70000	756.00	.4530-01	.3320-01	.5400-01	.9278	.1840-02	.2993-02	.2350	1.546	553.9
204	.00000	.80000	757.00	.4870-01	.3650-01	.5720-01	.9278	.2025-02	.3174-02	.2750	1.726	545.8
204	.00000	.90000	758.00	.3630-01	.2700-01	.4290-01	.9278	.1495-02	.2378-02	.1980	1.281	549.1
204	55.000	.22000	759.00	.6880-01	.5140-01	.8070-01	.9281	.2851-02	.4476-02	.3850	2.864	546.7
204	55.000	.25000	760.00	.3350-01	.2510-01	.3940-01	.9278	.1389-02	.2184-02	.1880	1.472	546.4
204	55.000	.27000	761.00	.3670-01	.2730-01	.4350-01	.9278	.1512-02	.2409-02	.2000	1.484	549.6
204	55.000	.30000	762.00	.6840-01	.5120-01	.8050-01	.9278	.2837-02	.4465-02	.3830	2.302	546.7
204	55.000	.32000	763.00	.8120-01	.6060-01	.9550-01	.9278	.3361-02	.5297-02	.4530	2.677	547.0
204	55.000	.34000	764.00	.8740-01	.6500-01	.1031	.9278	.3605-02	.5716-02	.4800	2.848	548.4
204	55.000	.36000	765.00	.9390-01	.6960-01	.1111	.9278	.3860-02	.6161-02	.5090	3.055	549.9
204	55.000	.38000	766.00	.1088	.7960-01	.1301	.9278	.4413-02	.7213-02	.5600	3.387	554.9
204	55.000	.40000	767.00	.1152	.8420-01	.1377	.9278	.4667-02	.7634-02	.5910	3.679	555.0
204	67.500	.23000	768.00	.6030-01	.4520-01	.7080-01	.9279	.2507-02	.3925-02	.3410	2.542	545.5
204	67.500	.25000	769.00	.3340-01	.2500-01	.3930-01	.9278	.1386-02	.2177-02	.1880	1.459	546.3
204	67.500	.27000	770.00	.4280-01	.3180-01	.5060-01	.9278	.1761-02	.2804-02	.2330	1.698	549.3
204	67.500	.29000	771.00	.5490-01	.4090-01	.6480-01	.9278	.2269-02	.3591-02	.3030	1.879	548.0
204	67.500	.30000	772.00	.8770-01	.6480-01	.1040	.9278	.3594-02	.5768-02	.4690	2.802	551.1
204	67.500	.31000	773.00	.9230-01	.6840-01	.1093	.9278	.3793-02	.6061-02	.4990	3.019	550.2
204	67.500	.32000	774.00	.1001	.7370-01	.1191	.9278	.4086-02	.6604-02	.5270	3.162	552.6
204	67.500	.32500	775.00	.1107	.8090-01	.1324	.9278	.4484-02	.7343-02	.5670	3.402	555.3
204	67.500	.33000	776.00	.1305	.9450-01	.1570	.9278	.5242-02	.8706-02	.6480	3.898	558.0
204	67.500	.33500	777.00	.1533	.1099	.1860	.9278	.6092-02	.1031-01	.7320	4.396	561.5
204	67.500	.34000	778.00	.1619	.1152	.1974	.9278	.6389-02	.1095-01	.7550	4.529	563.4
204	67.500	.35000	780.00	.1633	.1157	.1998	.9278	.6418-02	.1108-01	.7510	4.524	564.7
204	67.500	.35500	781.00	.1754	.1248	.2139	.9278	.6921-02	.1186-01	.8180	4.943	563.5
204	67.500	.36000	782.00	.1619	.1161	.1962	.9278	.6435-02	.1088-01	.7750	4.691	561.2
204	67.500	.36500	783.00	.1479	.1071	.1780	.9278	.5937-02	.9871-02	.7330	4.431	558.2
204	67.500	.37000	784.00	.1486	.1079	.1785	.9278	.5981-02	.9899-02	.7440	4.522	557.3
204	67.500	.37500	785.00	.1327	.9680-01	.1590	.9278	.5365-02	.8816-02	.6740	4.137	556.0
204	67.500	.38000	786.00	.1196	.8750-01	.1429	.9278	.4853-02	.7923-02	.6160	3.793	554.7
204	67.500	.39000	787.00	.1032	.7620-01	.1225	.9278	.4227-02	.6794-02	.5500	3.403	551.5
204	67.500	.40000	788.00	.7770-01	.5780-01	.9170-01	.9278	.3207-02	.5087-02	.4270	2.666	548.5
204	67.500	.50000	789.00	.4280-01	.3190-01	.5040-01	.9278	.1768-02	.2796-02	.2360	1.515	547.9
204	67.500	.60000	790.00	.6030-01	.4510-01	.7090-01	.9278	.2503-02	.3931-02	.3390	2.225	546.2
205	67.500	.70000	791.00	.5960-01	.4290-01	.7200-01	.9278	.2380-02	.3991-02	.2900	2.035	559.8
205	67.500	.80000	792.00	.6040-01	.4450-01	.7190-01	.9278	.2465-02	.3987-02	.3180	1.991	552.8
205	67.500	.90000	793.00	.8060-01	.5790-01	.9760-01	.9278	.3210-02	.5413-02	.3980	2.485	560.8

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F23)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	P/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
205	78.000	.27000	794.00	.4290-01	.3180-01	.5070-01	.9278	.1760-02	.2813-02	.2320	1.648	550.2
205	78.000	.29000	795.00	.1247	.9180-01	.1483	.9278	.5089-02	.8223-02	.6570	4.038	552.6
205	78.000	.30000	796.00	.1355	.9750-01	.1639	.9278	.5406-02	.9081-02	.6570	3.958	560.1
205	78.000	.31000	797.00	.1783	.1252	.2197	.9278	.6939-02	.1218-01	.7940	4.763	567.2
205	78.000	.32000	798.00	.2014	.1386	.2521	.9278	.7679-02	.1397-01	.8390	4.995	572.4
205	78.000	.32500	799.00	.2254	.1541	.2835	.9278	.8542-02	.1572-01	.9210	5.493	573.8
205	78.000	.33000	800.00	.2374	.1617	.2997	.9278	.8960-02	.1661-01	.9580	5.708	574.8
205	78.000	.33500	801.00	.2720	.1823	.3480	.9278	.1010-01	.1929-01	1.044	6.215	578.3
205	78.000	.34000	802.00	.2557	.1739	.3232	.9278	.9637-02	.1791-01	1.027	6.119	575.1
205	78.000	.34500	803.00	.2512	.1745	.3122	.9278	.9672-02	.1730-01	1.079	6.458	570.0
205	78.000	.35000	804.00	.2372	.1659	.2918	.9278	.9250-02	.1617-01	1.063	6.381	566.7
205	78.000	.35500	805.00	.2076	.1468	.2544	.9278	.8135-02	.1410-01	.9470	5.695	565.3
205	78.000	.36000	806.00	.1883	.1337	.2299	.9278	.7410-02	.1274-01	.8710	5.251	564.1
205	78.000	.36500	807.00	.1630	.1172	.1973	.9278	.6498-02	.1093-01	.7850	4.772	560.3
205	78.000	.37000	808.00	.1365	.9340-01	.1637	.9278	.5507-02	.9075-02	.6630	4.193	556.5
205	78.000	.37500	809.00	.1205	.8830-01	.1438	.9278	.4893-02	.7969-02	.6240	3.801	554.1
205	78.000	.38000	810.00	.9430-01	.6970-01	.1119	.9278	.3863-02	.6203-02	.5040	3.091	551.2
205	78.000	.38500	811.00	.5360-01	.4450-01	.7030-01	.9278	.2466-02	.3894-02	.3310	2.038	547.5
205	78.000	.39000	812.00	.5120-01	.3840-01	.6010-01	.9278	.2126-02	.3330-02	.2890	1.784	546.5
205	78.000	.40000	813.00	.6240-01	.4660-01	.7350-01	.9279	.2583-02	.4073-02	.3470	2.523	547.3
205	90.000	.20000	814.00	.5260-01	.3920-01	.6200-01	.9278	.2172-02	.3437-02	.2930	2.347	548.0
205	90.000	.24000	815.00	.5260-01	.3950-01	.6240-01	.9278	.1631-02	.2582-02	.2180	1.547	548.1
205	90.000	.27000	816.00	.3950-01	.2940-01	.4650-01	.9278	.6680-02	.1058-01	.8980	4.668	548.0
205	90.000	.29000	817.00	.1721	.1205	.2126	.9278	.9811-02	.1918-01	.9880	5.938	550.9
205	90.000	.30000	818.00	.2675	.1770	.3461	.9278	.1098-01	.2085-01	1.123	6.702	578.6
205	90.000	.31000	819.00	.2937	.1966	.3762	.9278	.1058-01	.2028-01	1.075	6.394	579.4
205	90.000	.32000	820.00	.2646	.1897	.3559	.9278	.1138-01	.2246-01	1.136	6.729	581.9
205	90.000	.32500	821.00	.3119	.2054	.4052	.9278	.1305-01	.2812-01	1.199	7.095	588.8
205	90.000	.33000	822.00	.3745	.2355	.5074	.9278	.1325-01	.2837-01	1.206	7.151	590.7
205	90.000	.33500	823.00	.3824	.2391	.5210	.9278	.1388-01	.3059-01	1.273	8.547	595.0
205	90.000	.34000	824.00	.4435	.2855	.5881	.9278	.1813-01	.4337-01	1.534	9.243	597.1
205	90.000	.34500	825.00	.5480	.3272	.7824	.9278	.1732-01	.5283-01	1.834	7.888	607.2
205	90.000	.35000	826.00	.5961	.3833	.9832	.9278	.1253-01	.2689-01	1.154	6.813	589.5
205	90.000	.35000	826.00	.5586	.2260	.4850	.9278	.9577-02	.1687-01	1.080	5.623	587.8
205	90.000	.36500	829.00	.3486	.1728	.3944	.9278	.5445-02	.8769-02	.7470	4.273	551.8
205	90.000	.37000	831.00	.1838	.9830-01	.1892	.9278	.4003-02	.6277-02	.5440	3.317	545.9
205	90.000	.37500	831.00	.1040-01	.7980-01	.1533	.9278	.3165-02	.4980-02	.4370	2.888	543.6
205	90.000	.38000	832.00	.9780-01	.6710-01	.9880-01	.9278	.2410-02	.3791-02	.3280	2.209	546.5
205	90.000	.38500	833.00	.8187-01	.6360-01	.8540-01	.9278	.2009-02	.3160-02	.2730	1.839	548.9
205	90.000	.39000	834.00	.7481-01	.5710-01	.8110-01	.9278	.1627-02	.2560-02	.2210	1.485	547.5
205	90.000	.40000	835.00	.8691-01	.6700-01	.9430-01	.9278	.2258-02	.3551-02	.3080	1.993	549.2
205	90.000	.41000	836.00	.8170-01	.6300-01	.8860-01	.9278	.3531-02	.5555-02	.4810	3.236	550.0
205	90.000	.41500	837.00	.7480-01	.5770-01	.8120	.9278	.3264-02	.5138-02	.4450	2.992	552.5
205	90.000	.42000	838.00	.6911-01	.5331-01	.7502	.9278	.3016-02	.4747-02	.4110	2.765	554.1
205	90.000	.42500	839.00	.6441-01	.4968-01	.6991	.9278	.2811-02	.4424-02	.3830	2.577	555.3
205	90.000	.43000	840.00	.6041-01	.4659-01	.6556	.9278	.2636-02	.4149-02	.3590	2.417	556.2
205	90.000	.43500	841.00	.5693-01	.4391-01	.6179	.9278	.2484-02	.3910-02	.3390	2.278	556.9
205	90.000	.44000	842.00	.5385-01	.4153-01	.5845	.9278	.2350-02	.3699-02	.3200	2.155	557.5
205	90.000	.44500	843.00	.5110-01	.3941-01	.5547	.9278	.2230-02	.3510-02	.3040	2.045	558.0
205	90.000	.45000	844.00	.4864-01	.3752-01	.5280	.9278	.2123-02	.3341-02	.2890	1.947	558.4
205	90.000	.45500	845.00	.4642-01	.3580-01	.5039	.9278	.2026-02	.3188-02	.2760	1.858	558.8
205	90.000	.46000	846.00	.4441-01	.3425-01	.4821	.9278	.1938-02	.3050-02	.2640	1.778	559.1
205	90.000	.46500	847.00	.4258-01	.3284-01	.4623	.9278	.1858-02	.2925-02	.2530	1.705	559.3
205	90.000	.47000	848.00	.4091-01	.3156-01	.4442	.9278	.1786-02	.2811-02	.2430	1.638	559.5
205	90.000	.47500	849.00	.3938-01	.3038-01	.4276	.9278	.1719-02	.2706-02	.2340	1.577	559.7
205	90.000	.48000	850.00	.3797-01	.2929-01	.4123	.9278	.1658-02	.2610-02	.2260	1.521	559.8
205	90.000	.48500	851.00	.3667-01	.2829-01	.3982	.9278	.1601-02	.2521-02	.2180	1.469	559.9
205	90.000	.49000	852.00	.3546-01	.2736-01	.3851	.9278	.1548-02	.2438-02	.2110	1.421	560.0
205	90.000	.49500	853.00	.3434-01	.2649-01	.3729	.9278	.1499-02	.2360-02	.2040	1.376	560.1
205	90.000	.50000	854.00	.3329-01	.2568-01	.3615	.9278	.1453-02	.2288-02	.1980	1.334	560.2

(RVTF23)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
205	90.000	.90000	839.00	.1949	.1393	.2369	.9278	.7720-02	.1313-01	.9220	5.851	582.2
205	112.50	.23000	840.00	.6520-01	.4860-01	.7670-01	.9279	.2696-02	.4249-02	.3630	2.923	547.1
205	112.50	.25000	841.00	.3730-01	.2790-01	.4390-01	.9278	.1547-02	.2431-02	.2090	1.624	546.3
205	112.50	.30000	843.00	.9620-01	.7110-01	.1142	.9278	.3939-02	.5329-02	.5130	3.047	551.2
205	112.50	.33000	844.00	.1866	.1337	.2264	.9278	.7409-02	.1255-01	.8900	5.328	561.5
205	112.50	.35000	845.00	.2222	.1571	.2722	.9278	.8710-02	.1509-01	1.014	6.157	565.2
205	112.50	.37000	846.00	.1629	.1189	.1948	.9278	.6592-02	.1080-01	.8330	5.112	555.3
205	112.50	.40000	847.00	.8410-01	.6330-01	.9850-01	.9278	.3507-02	.5458-02	.4830	3.013	544.0
205	112.50	.45000	848.00	.5300-01	.4000-01	.6200-01	.9278	.2219-02	.3436-02	.3080	1.942	542.7
205	112.50	.50000	849.00	.5410-01	.4040-01	.6370-01	.9278	.2239-02	.3529-02	.3010	1.938	547.0
205	112.50	.55000	850.00	.4870-01	.3630-01	.5740-01	.9278	.2013-02	.3179-02	.2700	1.805	547.5
205	112.50	.60000	851.00	.1077	.7950-01	.1279	.9278	.4404-02	.7088-02	.5730	3.827	551.7
205	112.50	.65000	852.00	.1466	.1067	.1759	.9278	.5912-02	.9748-02	.7390	5.006	556.6
205	112.50	.70000	853.00	.1456	.1051	.1757	.9278	.5828-02	.9736-02	.7140	4.983	559.1
205	112.50	.75000	854.00	.1102	.8030-01	.1320	.9278	.4450-02	.7318-02	.5590	3.608	556.1
205	112.50	.80000	855.00	.1155	.8490-01	.1375	.9278	.4707-02	.7619-02	.6060	3.930	552.9
205	112.50	.90000	856.00	.1536	.1100	.1854	.9278	.6139-02	.1027-01	.7510	4.838	559.4
205	125.40	.84000	857.00	.8090-01	.5910-01	.9690-01	.9278	.3273-02	.5369-02	.4130	2.539	555.6
205	125.40	.85000	858.00	.9150-01	.6670-01	.1096	.9278	.3694-02	.6073-02	.4640	2.871	556.0
205	125.40	.86000	859.00	.7960-01	.5830-01	.9490-01	.9278	.3231-02	.5260-02	.4120	2.575	554.0
205	125.40	.87000	860.00	.8490-01	.6220-01	.1013	.9278	.3446-02	.5614-02	.4390	2.749	554.2
205	125.40	.88000	861.00	.1046	.7650-01	.1250	.9278	.4238-02	.6927-02	.5370	3.362	554.9
205	125.40	.89000	862.00	.1274	.9230-01	.1533	.9278	.5115-02	.8499-02	.6320	3.973	558.1
205	125.40	.90000	863.00	.1375	.9990-01	.1651	.9278	.5527-02	.9151-02	.6900	4.364	557.0
205	125.40	.91000	864.00	.1539	.1112	.1855	.9278	.6164-02	.1028-01	.7590	5.475	558.7
205	125.40	.92600	865.00	.2359	.1628	.2947	.9278	.9021-02	.1633-01	.9920	7.097	571.7
205	129.30	.83000	866.00	.1017	.7300-01	.1209	.9278	.4155-02	.6701-02	.5380	3.372	552.1
205	129.30	.81000	867.00	.8200-01	.6060-01	.9720-01	.9278	.3359-02	.5388-02	.4390	2.737	551.0
205	129.30	.82000	868.00	.6700-01	.4970-01	.7930-01	.9278	.2756-02	.4395-02	.3540	2.270	549.7
205	129.30	.83000	869.00	.7490-01	.5500-01	.8920-01	.9278	.3047-02	.4941-02	.3910	2.444	553.2
205	135.00	.40000-01	870.00	.5115	.3535	.4578	.9631	.1959-01	.2539-01	2.162	13.73	571.3
205	135.00	.50000-01	871.00	.5213	.3638	.4814	.9596	.2015-01	.2669-01	2.275	14.38	568.8
205	135.00	.60000-01	872.00	.4099	.2765	.3657	.9562	.1533-01	.2143-01	1.696	10.51	576.9
205	135.00	.70000-01	873.00	.3925	.2677	.3816	.9531	.1484-01	.2.15-01	1.591	10.67	574.4
205	135.00	.10000+00	875.00	.2980	.2130	.3123	.9447	.1181-01	.1731-01	1.400	9.111	563.1
205	135.00	.15000	876.00	.1783	.1281	.2038	.9346	.7100-02	.1130-01	.8520	6.190	561.6
205	135.00	.20000	877.00	.1040	.7700-01	.1219	.9291	.4269-02	.6755-02	.5610	3.774	550.3
205	135.00	.35000	878.00	.9300-01	.6930-01	.1097	.9278	.3842-02	.6080-02	.5140	3.191	547.9
205	135.00	.40000	879.00	.1118	.8240-01	.1328	.9278	.4568-02	.7361-02	.5970	3.746	551.9
205	135.00	.50000	880.00	.1217	.8820-01	.1465	.9278	.4887-02	.8117-02	.6040	4.126	558.0
205	135.00	.55000	881.00	.1188	.8620-01	.1429	.9278	.4776-02	.7920-02	.5920	3.922	557.7
205	135.00	.60000	882.00	.1044	.7710-01	.1239	.9278	.4271-02	.6869-02	.5560	3.727	551.5
205	135.00	.65000	883.00	.8800-01	.6480-01	.1046	.9278	.3593-02	.5799-02	.4650	3.163	552.3

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F23)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	HI(TO) BTU/ R FT2SEC	HI(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
205	135.00	.70000	884.00	.8240-01	.6080-01	.9780-01	.9278	.3372-02	.5421-02	.4390	3.113	551.5
205	135.00	.75000	885.00	.9030-01	.6650-01	.1072	.9278	.3688-02	.5943-02	.4780	3.007	551.9
205	135.00	.80000	886.00	.8620-01	.6400-01	.1018	.9278	.3548-02	.5643-02	.4700	2.952	549.1
205	135.00	.84000	887.00	.9010-01	.6560-01	.1081	.9278	.3633-02	.5992-02	.4540	2.841	555.6
203	180.00	.40000-01	600.00	.5279	.3610	.4708	.9631	.2003-01	.2612-01	2.157	13.69	573.4
203	180.00	.50000-01	601.00	.5160	.3561	.4751	.9596	.1975-01	.2636-01	2.171	13.83	571.2
203	180.00	.60000-01	602.00	.4311	.2884	.4061	.9562	.1600-01	.2253-01	1.647	10.80	578.2
203	180.00	.70000-01	603.00	.3919	.2574	.3710	.9530	.1428-01	.2058-01	1.491	10.03	576.7
203	180.00	.80000-01	604.00	.3699	.2521	.3536	.9501	.1398-01	.2050-01	1.495	9.592	574.2
203	180.00	.10000+00	605.00	.2743	.1916	.2875	.9547	.1063-01	.1595-01	1.199	8.516	568.3
203	180.00	.15000	606.00	.1645	.1164	.1884	.9346	.6459-02	.1045-01	.7530	5.427	564.5
203	180.00	.20000	607.00	.9850-01	.7240-01	.1160	.9291	.4017-02	.6434-02	.5170	3.350	552.5
203	180.00	.21000	608.00	.8550-01	.6310-01	.1008	.9285	.3502-02	.5592-02	.4560	3.147	550.8
203	180.00	.22000	609.00	.7050-01	.5220-01	.8330-01	.9281	.2893-02	.4620-02	.3790	2.615	550.1
203	180.00	.30000	610.00	.6130-01	.4550-01	.7250-01	.9278	.2523-02	.4026-02	.3320	2.271	549.5
203	180.00	.35000	611.00	.5700-01	.4240-01	.6740-01	.9278	.2350-02	.3740-02	.3110	2.070	548.8
203	180.00	.36000	612.00	.7930-01	.5840-01	.9420-01	.9278	.3238-02	.5228-02	.4190	2.806	551.9
203	180.00	.37000	613.00	.1140	.8290-01	.1358	.9278	.4600-02	.7591-02	.5740	3.840	556.3
203	180.00	.37500	614.00	.9620-01	.7020-01	.1152	.9278	.3893-02	.6391-02	.4900	3.279	555.3
203	180.00	.38000	615.00	.8690-01	.6340-01	.1040	.9278	.3515-02	.5767-02	.4430	2.962	555.2
203	180.00	.38600	616.00	.8650-01	.6310-01	.1036	.9278	.3501-02	.5744-02	.4410	2.950	555.2
203	180.00	.39000	617.00	.9080-01	.6620-01	.1087	.9278	.3672-02	.6030-02	.4620	3.082	555.4
203	180.00	.39500	618.00	.9820-01	.7130-01	.1180	.9278	.3956-02	.6544-02	.4920	3.299	556.8
203	180.00	.40000	619.00	.1016	.7320-01	.1227	.9278	.4052-02	.6808-02	.4950	3.298	559.2
203	180.00	.40500	620.00	.1156	.8260-01	.1405	.9278	.4380-02	.7793-02	.5450	3.644	561.9
203	180.00	.41000	621.00	.1294	.9280-01	.1697	.9278	.5425-02	.9412-02	.6300	4.195	565.1
203	180.00	.41500	622.00	.1636	.1183	.2039	.9278	.6553-02	.1165-01	.7400	4.902	568.5
203	180.00	.42500	624.00	.2423	.1627	.3094	.9278	.9028-02	.1716-01	.9370	6.160	577.4
203	180.00	.43000	625.00	.2806	.1849	.3645	.9278	.1026-01	.2022-01	1.023	6.761	581.4
203	180.00	.44000	626.00	.3576	.2234	.4678	.9278	.1239-01	.2706-01	1.124	7.392	590.4
203	180.00	.44500	627.00	.3547	.2235	.4737	.9278	.1240-01	.2651-01	1.142	7.585	589.1
203	180.00	.45000	628.00	.3922	.1929	.3787	.9278	.1070-01	.2101-01	1.073	7.153	580.9
203	180.00	.45500	629.00	.3276	.1566	.2850	.9278	.8688-02	.1591-01	.9480	6.450	572.0
203	180.00	.46000	630.00	.3036	.1333	.2310	.9278	.7397-02	.1282-01	.8690	5.710	564.8
203	180.00	.46500	631.00	.3203	.8700-01	.1449	.9278	.4827-02	.8037-02	.5540	3.972	558.0
203	180.00	.47000	632.00	.3389	.9460-01	.1620	.9278	.5296-02	.8965-02	.6200	4.159	563.0
203	180.00	.48000	633.00	.2033	.1391	.2355	.9278	.3710-02	.1418-01	.8970	6.200	571.4
203	180.00	.49000	634.00	.2137	.1474	.2671	.9278	.8176-02	.1382-01	.8970	6.200	571.4
203	180.00	.50000	635.00	.1682	.1174	.2030	.9278	.6510-03	.1131-01	.7540	4.961	565.3
203	180.00	.55000	636.00	.1425	.1024	.1765	.9278	.5685-02	.9571-02	.6980	4.405	560.1
203	180.00	.60000	637.00	.1627	.1169	.1982	.9278	.6496-02	.1068-01	.7900	5.075	559.4
203	180.00	.65000	638.00	.1824	.7400-01	.1235	.9278	.4104-02	.6853-02	.5030	3.423	559.6
203	180.00	.70000	639.00	.1280-01	.3220-01	.5150-01	.9278	.1765-02	.2657-02	.2340	1.507	550.1
203	180.00	.75000										

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F23)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TH DEG. R
203	180.00	.80000	640.00	.5940-01	.4370-01	.7070-01	.9278	.2425-02	.3920-02	.3130	1.954	552.2
203	180.00	.85000	641.00	.8670-01	.6260-01	.1046	.9278	.3472-02	.5803-02	.4250	2.671	558.7
203	180.00	.86000	642.00	.1258	.8990-01	.1529	.9278	.4985-02	.8481-02	.5950	3.783	561.9
203	180.00	.87000	643.00	.1239	.8820-01	.1510	.9278	.4895-02	.8378-02	.5790	3.704	562.9
203	180.00	.88000	644.00	.1099	.7800-01	.1343	.9278	.4324-02	.7449-02	.5070	3.269	563.9
203	180.00	.89000	645.00	.1292	.9040-01	.1596	.9278	.5017-02	.8854-02	.5690	3.709	567.7
203	180.00	.90000	646.00	.8950-01	.6310-01	.1100	.9278	.3501-02	.6099-02	.4040	2.691	565.7
203	180.00	.92600	648.00	.9770-01	.6330-01	.1288	.9278	.3509-02	.7145-02	.3390	2.427	584.5
203	180.00	.95000	649.00	.4610-01	.3410-01	.5460-01	.9278	.1892-02	.3031-02	.2480	1.785	550.3
203	191.25	.35000	650.00	.6230-01	.4620-01	.7360-01	.9278	.2562-02	.4084-02	.3380	2.269	549.2
203	191.25	.36000	651.00	.8900-01	.6530-01	.1061	.9278	.3621-02	.5885-02	.4630	3.111	553.3
203	191.25	.37000	652.00	.1257	.9120-01	.1510	.9278	.5060-02	.8376-02	.6290	4.204	556.9
203	191.25	.37500	653.00	.1177	.8520-01	.1416	.9278	.4727-02	.7856-02	.5840	3.913	557.7
203	191.25	.38000	654.00	.1099	.7980-01	.1321	.9278	.4425-02	.7327-02	.5490	3.685	557.0
203	191.25	.38500	655.00	.1081	.7830-01	.1301	.9278	.4342-02	.7219-02	.5360	3.592	557.8
203	191.25	.39000	656.00	.1026	.7410-01	.1237	.9278	.4110-02	.6862-02	.5040	3.377	558.5
203	191.25	.39500	657.00	.1396	.1004	.1690	.9278	.5567-02	.9376-02	.6740	4.514	560.1
203	191.25	.40000	658.00	.1393	.9960-01	.1693	.9278	.5527-02	.9389-02	.6610	4.435	561.6
203	191.25	.40500	659.00	.1512	.1078	.1841	.9278	.5977-02	.1021-01	.7090	4.754	562.6
203	191.25	.41000	660.00	.1615	.1144	.1975	.9278	.6346-02	.1096-01	.7420	4.956	564.3
203	191.25	.41500	661.00	.1740	.1231	.2132	.9278	.6831-02	.1183-01	.7950	5.298	564.7
203	191.25	.42000	662.00	.2097	.1448	.2618	.9278	.8032-02	.1452-01	.8840	5.887	571.1
203	191.25	.42500	663.00	.2286	.1561	.2881	.9278	.8658-02	.1598-01	.9290	6.199	573.8
203	191.25	.43000	664.00	.2315	.1538	.2985	.9278	.8529-02	.1656-01	.8650	5.807	579.7
203	191.25	.44000	665.00	.2517	.1689	.3217	.9278	.9371-02	.1785-01	.9700	6.480	577.6
203	191.25	.45000	666.00	.2347	.1606	.2951	.9278	.8907-02	.1637-01	.9610	6.431	573.3
203	191.25	.45500	667.00	.2236	.1524	.2822	.9278	.8455-02	.1565-01	.9040	6.050	574.2
203	191.25	.46000	668.00	.2111	.1443	.2656	.9278	.8007-02	.1473-01	.8630	5.791	573.4
203	191.25	.47000	669.00	.1979	.1376	.2456	.9278	.7634-02	.1363-01	.8540	5.760	569.3
203	191.25	.48000	670.00	.1972	.1377	.2440	.9278	.7638-02	.1354-01	.8620	5.821	568.3
203	191.25	.49000	671.00	.1980	.1384	.2448	.9278	.7678-02	.1358-01	.8690	5.848	568.0
203	191.25	.50000	672.00	.1903	.1313	.2377	.9278	.7285-02	.1319-01	.8000	5.497	571.3
203	191.25	.60000	673.00	.1209	.8800-01	.1450	.9278	.4880-02	.8045-02	.6100	3.893	556.1
203	191.25	.70000	674.00	.1580	.1117	.1936	.9278	.6196-02	.1074-01	.7200	4.857	564.9
203	191.25	.85000	676.00	.8120-01	.5860-01	.9800-01	.9278	.3248-02	.5434-02	.3970	2.494	558.?
203	191.25	.86000	677.00	.7690-01	.5510-01	.9330-01	.9278	.3057-02	.5176-02	.3670	2.332	561.0
203	191.25	.87000	678.00	.7230-01	.5150-01	.8830-01	.9278	.2855-02	.4896-02	.3370	2.154	563.2
203	191.25	.88000	679.00	.8870-01	.6250-01	.1091	.9278	.3465-02	.6055-02	.3980	2.574	566.2
203	191.25	.89000	680.00	.1124	.7810-01	.1395	.9278	.4335-02	.7740-02	.4850	3.173	569.4
203	191.25	.90000	681.00	.1214	.8400-01	.1514	.9278	.4658-02	.8401-02	.5140	3.425	570.8
203	191.25	.91000	682.00	.8890-01	.6150-01	.1107	.9278	.3412-02	.6142-02	.3780	2.722	570.5
203	191.25	.92600	683.00	.1264	.8320-01	.1643	.9278	.4613-02	.9115-02	.4590	3.303	581.6
203	191.25	.95000	684.00	.3170-01	.2350-01	.3760-01	.9278	.1302-02	.2087-02	.1700	1.229	550.3

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F23)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
203	197.00	.33000	685.00	.5550-01	.4140-01	.6540-01	.9278	.2294-02	.3630-02	.3070	2.061	547.5
203	197.00	.34000	686.00	.5270-01	.3920-01	.6220-01	.9278	.2172-02	.3452-02	.2880	1.936	548.5
203	197.00	.35000	687.00	.5800-01	.4300-01	.6850-01	.9278	.2387-02	.3800-02	.3160	2.120	548.9
203	197.00	.36000	688.00	.9980-01	.7300-01	.1193	.9278	.4051-02	.6616-02	.5140	3.442	554.3
203	197.00	.37000	689.00	.1169	.8500-01	.1403	.9278	.4717-02	.7782-02	.5890	3.940	556.3
203	197.00	.37500	690.00	.1201	.8640-01	.1451	.9278	.4794-02	.8052-02	.5830	3.903	559.6
203	197.00	.50000	691.00	.2061	.1364	.2666	.9278	.7567-02	.1479-01	.7620	5.037	580.4
203	197.00	.60000	692.00	.1097	.7980-01	.1317	.9278	.4428-02	.7304-02	.5530	3.550	556.2
203	197.00	.70000	693.00	.2279	.1542	.2893	.9278	.8555-02	.1605-01	.9010	6.022	575.8
203	197.00	.80000	694.00	.7540-01	.5550-01	.8960-01	.9278	.3080-02	.4968-02	.3990	2.499	551.7
203	197.00	.87000	695.00	.6500-01	.4610-01	.7940-01	.9278	.2557-02	.4403-02	.3000	1.895	563.9
205	197.00	.92600	696.00	.1873	.1247	.2411	.9278	.6918-02	.1337-01	.7050	5.074	579.3
205	209.80	.15000-01	697.00	.1664	.1223	.1981	.9278	.6784-02	.1099-01	.8720	5.971	552.6
204	209.80	.30000-01	698.00	.7346	.4849	.6381	.9647	.2689-01	.3538-01	2.697	18.03	581.4
204	209.80	.50000-0	699.00	.5388	.3767	.4977	.9596	.2089-01	.2759-01	2.366	14.88	568.4
204	209.80	.70000-0	700.00	.4333	.2911	.4207	.9531	.1614-01	.2333-01	1.676	11.16	577.9
204	209.80	.10000+00	701.00	.2990	.2117	.3126	.9447	.1174-01	.1733-01	1.369	8.649	565.0
204	209.80	.15000	702.00	.1565	.1121	.1782	.9346	.6216-02	.9879-02	.7470	5.307	561.5
204	209.80	.20000	703.00	.9270-01	.6900-01	.1083	.9291	.3826-02	.6005-02	.5100	3.391	548.5
204	209.80	.30000	704.00	.7130-01	.5270-01	.8470-01	.9278	.2919-02	.4695-02	.3800	2.685	551.6
204	209.80	.35000	705.00	.1076	.7890-01	.1283	.9278	.4373-02	.7115-02	.5590	3.810	554.0
204	209.80	.37500	706.00	.1434	.1032	.1735	.9278	.5722-02	.9620-02	.6950	4.740	560.2
204	209.80	.50000	707.00	.2047	.1420	.2546	.9278	.7875-02	.1412-01	.8770	5.932	570.4
204	209.80	.60000	708.00	.8600-01	.6400-01	.1015	.9278	.3548-02	.5630-02	.4720	3.007	548.6
204	209.90	.70000	709.00	.1303	.9430-01	.1568	.9278	.5229-02	.8696-02	.6460	4.092	558.2
204	209.80	.80000	710.00	.7580-01	.5680-01	.8900-01	.9278	.3149-02	.4935-02	.4280	2.671	545.7
204	209.80	.87000	711.00	.9690-01	.7040-01	.1163	.9278	.3904-02	.6450-02	.4870	3.061	557.0
204	209.80	.92600	712.00	.1482	.1020	.1854	.9278	.5658-02	.1028-01	.6190	4.445	572.2
204	217.70	.15000-01	713.00	.1525	.1136	.1799	.9278	.6300-02	.9975-02	.8420	5.792	548.1
204	217.70	.30000-01	714.00	.7457	.4967	.6500	.9647	.2754-01	.3604-01	2.812	18.82	579.6
204	217.70	.50000-01	715.00	.5164	.3642	.4780	.9596	.2019-01	.2650-01	2.336	15.09	566.0
204	217.70	.70000-01	716.00	.3499	.2388	.3402	.9531	.1324-01	.1886-01	1.421	9.562	574.4
204	217.70	.10000+00	717.00	.2369	.1712	.2469	.9447	.9494-02	.1369-01	1.167	7.527	558.7
204	217.70	.15000	718.00	.1529	.1096	.1740	.9346	.6075-02	.9649-02	.7310	5.313	561.3
204	217.70	.20000	719.00	.8880-01	.6670-01	.1032	.9291	.3696-02	.5722-02	.5050	3.404	545.2
204	217.70	.30000	720.00	.7470-01	.5510-01	.8880-01	.9278	.3055-02	.4924-02	.3960	2.826	552.0
204	217.70	.37500	722.00	.9390-01	.6930-01	.1114	.9278	.3845-02	.6178-02	.5010	3.464	551.4
204	217.70	.50000	723.00	.2325	.1595	.2919	.9278	.8843-02	.1618-01	.9590	6.542	573.2
204	217.70	.60000	724.00	.1139	.8440-01	.1349	.9278	.4678-02	.7481-02	.6150	3.922	550.3
204	217.70	.70000	725.00	.7330-01	.5440-01	.8670-01	.9278	.3016-02	.4805-02	.3990	2.531	549.5
204	217.70	.80000	726.00	.6770-01	.5060-01	.7960-01	.9278	.2803-02	.4415-02	.3780	2.375	546.9
204	217.70	.87000	727.00	.1035	.7450-01	.1252	.9278	.4131-02	.6940-02	.5020	3.190	560.1
204	217.70	.92600	728.00	.1565	.1084	.1949	.9278	.6010-02	.1091-01	.6660	4.787	570.8

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F23)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = .0000 BETA = .0000 GRIT = 4.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
156	4.520	5.418	.1000-01	.0000	.0000	104.0	.3500	664.0	130.6	5.011	2531.	.2251-03
157	4.520	5.448	.1000-01	.0000	.0000	103.9	.3500	662.0	130.1	5.007	2526.	.2259-03
158	4.520	5.448	-.2000-01	.0000	.0000	103.9	.3500	662.0	130.1	5.007	2526.	.2258-03
196	4.520	5.054	-.1000-01	.0000	.0000	96.90	.3270	664.0	130.6	4.671	2531.	.2099-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
156	.1051-06	.4902-01	.1101-01
157	.1047-06	.4898-01	.1099-01
158	.1047-06	.4898-01	.1099-01
196	.1051-06	.4733-01	.1140-01

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
157	.00000	.30000-02	730.00	.4296	.2907	.3721	.9662	.1424-01	.1822-01	1.457	9.941	559.2
157	.00000	.10300-01	731.00	.1266	.9260-01	.1650	.9183	.4537-02	.8082-02	.5590	3.868	538.3
157	.00000	.15000-01	732.00	.9740-01	.7170-01	.1262	.9183	.3510-02	.6179-02	.4390	3.003	536.4
157	.00000	.25000-01	734.00	.1601	.1098	.1460	.9605	.5380-02	.7149-02	.5670	3.841	556.1
157	.00000	.30000-01	735.00	.4174	.2640	.3785	.9588	.1293-01	.1854-01	1.164	7.868	571.5
157	.00000	.40000-01	737.00	.4716	.3129	.4391	.9573	.1533-01	.2150-01	1.507	9.749	563.2
157	.00000	.45000-01	738.00	.4659	.3079	.4409	.9555	.1508-01	.2160-01	1.471	9.658	564.0
157	.00000	.60000-01	739.00	.3320	.2185	.3307	.9504	.1070-01	.1620-01	1.035	6.897	564.7
157	.00000	.70000-01	740.00	.3068	.2042	.3160	.9471	.1000-01	.1548-01	.9900	6.640	562.6
157	.00000	.80000-01	741.00	.2595	.1750	.2755	.9440	.8572-02	.1349-01	.8710	6.287	559.9
157	.00000	.10000+00	742.00	.2222	.1552	.2471	.9383	.7600-02	.1210-01	.8330	5.553	551.9
157	.00000	.12500	743.00	.1584	.1106	.1873	.9322	.5417-02	.9173-02	.5940	4.304	551.9
157	.00000	.15000	744.00	.1231	.8770-01	.1511	.9271	.4295-02	.7403-02	.4940	3.432	546.6
157	.00000	.17500	745.00	.7940-01	.5750-01	.9990-01	.9231	.2815-02	.4895-02	.3370	2.541	541.7
157	.00000	.20000	746.00	.4910-01	.3580-01	.6300-01	.9202	.1755-02	.3084-02	.2150	1.545	539.0
157	.00000	.21500	747.00	.4240-01	.3100-01	.5500-01	.9191	.1519-02	.2692-02	.1860	1.298	538.7

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F23)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
157	.00000	.23000	748.00	.3240-01	.2360-01	.4220-01	.9184	.1157-02	.2068-02	.1420	1.051	539.1
157	.00000	.24000	749.00	.2600-01	.1890-01	.3400-01	.9183	.9273-03	.1655-02	.1130	.8560	539.5
157	.00000	.25000	750.00	.1360-01	.1000-01	.1780-01	.9183	.4883-03	.8702-03	.6000-01	.4880	538.4
157	.00000	.30000	751.00	.4040-01	.2950-01	.5290-01	.9183	.1444-02	.2591-02	.1760	1.162	539.4
157	.00000	.35000	752.00	.3960-01	.2900-01	.5150-01	.9183	.1422-02	.2522-02	.1760	1.119	537.6
157	.00000	.40000	753.00	.4810-01	.3520-01	.6260-01	.9183	.1724-02	.3064-02	.2130	1.375	538.0
157	.00000	.50000	754.00	.5330-01	.3850-01	.7040-01	.9183	.1886-02	.3448-02	.2250	1.476	542.2
157	.00000	.60000	755.00	.4150-01	.3030-01	.5420-01	.9183	.1482-02	.2656-02	.1810	1.165	539.3
157	.00000	.70000	756.00	.4830-01	.3470-01	.6430-01	.9183	.1701-02	.3150-02	.2000	1.320	544.1
157	.00000	.80000	757.00	.4250-01	.3090-01	.5570-01	.9183	.1515-02	.2726-02	.1840	1.159	539.9
157	.00000	.90000	758.00	.2110-01	.1540-01	.2740-01	.9183	.7556-03	.1341-02	.9400-01	.6080	537.7
157	55.000	.22000	759.00	.3920-01	.2860-01	.5080-01	.9188	.1402-02	.2488-02	.1730	1.289	538.5
157	55.000	.25000	760.00	.1680-01	.1230-01	.2180-01	.9183	.6031-03	.1067-02	.7500-01	.5900	537.2
157	55.000	.27000	761.00	.2090-01	.1530-01	.2720-01	.9183	.7485-03	.1334-02	.9200-01	.6880	538.4
157	55.000	.30000	762.00	.4310-01	.3150-01	.5620-01	.9183	.1542-02	.2751-02	.1900	1.145	538.5
157	55.000	.32000	763.00	.5850-01	.4270-01	.7660-01	.9183	.2091-02	.3750-02	.2550	1.517	539.3
157	55.000	.34000	764.00	.5220-01	.3810-01	.6820-01	.9183	.1867-02	.3340-02	.2290	1.362	539.0
157	55.000	.36000	765.00	.6320-01	.4610-01	.8260-01	.9183	.2258-02	.4044-02	.2760	1.668	539.1
157	55.000	.38000	766.00	.6800-01	.4930-01	.8970-01	.9183	.2414-02	.4393-02	.2900	1.764	541.6
157	55.000	.40000	767.00	.8670-01	.6260-01	.1148	.9183	.3065-02	.5625-02	.3640	2.280	542.7
157	67.500	.23000	768.00	.4050-01	.2960-01	.5280-01	.9184	.1448-02	.2585-02	.1780	1.326	538.9
157	67.500	.25000	769.00	.1430-01	.1050-01	.1860-01	.9183	.5140-03	.9121-03	.6400-01	.4970	537.7
157	67.500	.27000	770.00	.2640-01	.1930-01	.3440-01	.9183	.9423-03	.1685-02	.1160	.8470	538.8
157	67.500	.29000	771.00	.3620-01	.2640-01	.4710-01	.9183	.1295-02	.2309-02	.1590	.9930	538.4
157	67.500	.30000	772.00	.5610-01	.4060-01	.7410-01	.9183	.1989-02	.3627-02	.2380	1.458	541.8
157	67.500	.31000	773.00	.6230-01	.4530-01	.8180-01	.9183	.2216-02	.4009-02	.2680	1.629	540.6
157	67.500	.32000	774.00	.7060-01	.5130-01	.9260-01	.9183	.2512-02	.4536-02	.3040	1.835	540.4
157	67.500	.32500	775.00	.6720-01	.4870-01	.8850-01	.9183	.2384-02	.4336-02	.2860	1.730	541.5
157	67.500	.33000	776.00	.7510-01	.5420-01	.9930-01	.9183	.2656-02	.4864-02	.3160	1.916	542.4
157	67.500	.33500	777.00	.9270-01	.6650-01	.1235	.9183	.3259-02	.6047-02	.3820	2.312	544.3
157	67.500	.34000	778.00	.1007	.7190-01	.1349	.9183	.3523-02	.6606-02	.4080	2.467	545.7
157	67.500	.34500	779.00	.1233	.8740-01	.1667	.9183	.4279-02	.8162-02	.4860	2.946	547.9
157	67.500	.35000	780.00	.1216	.8590-01	.1652	.9183	.4207-02	.8092-02	.4740	2.876	548.9
157	67.500	.35500	781.00	.1381	.9670-01	.1896	.9183	.4737-02	.9288-02	.5220	3.177	551.2
157	67.500	.36000	782.00	.1330	.9370-01	.1811	.9183	.4590-02	.8869-02	.5140	3.130	549.5
157	67.500	.36500	783.00	.1265	.9000-01	.1703	.9183	.4408-02	.8342-02	.5050	3.071	546.9
157	67.500	.37000	784.00	.1192	.8500-01	.1599	.9183	.4163-02	.7830-02	.4800	2.938	546.1
157	67.500	.37500	785.00	.9560-01	.6840-01	.1278	.9183	.3352-02	.6261-02	.3900	2.404	545.2
157	67.500	.38000	786.00	.8760-01	.6290-01	.1168	.9183	.3080-02	.5720-02	.3610	2.232	544.4
158	67.500	.39000	787.00	.7480-01	.5410-01	.9880-01	.9183	.2648-02	.4841-02	.3160	1.963	542.2
158	67.500	.40000	788.00	.7000-01	.5090-01	.9170-01	.9183	.2495-02	.4492-02	.3030	1.902	539.9
196	67.500	.50000	789.00	.5180-01	.3730-01	.6840-01	.9185	.1831-02	.3353-02	.2180	1.4C!	544.4
196	67.500	.60000	790.00	.6020-01	.4370-01	.7900-01	.9185	.2144-02	.3874-02	.2600	1.707	542.5

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F23)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
196	67.500	.70000	791.00	.4930-01	.3560-01	.6500-01	.9185	.1745-02	.3188-02	.2090	1.475	544.0
196	67.500	.80000	792.00	.6030-01	.4390-01	.7870-01	.9185	.2155-02	.3861-02	.2640	1.662	541.2
196	67.500	.90000	793.00	.2340-01	.1650-01	.3150-01	.9185	.8111-03	.1546-02	.9200-01	.5940	549.8
196	78.000	.27000	794.00	.3350-01	.2430-01	.4390-01	.9184	.1193-02	.2151-02	.1450	1.038	541.9
196	78.000	.29000	795.00	.7600-01	.5490-01	.1005	.9184	.2690-02	.4927-02	.3210	1.981	544.2
158	78.000	.30000	796.00	.9500-01	.6790-01	.1273	.9183	.3326-02	.6233-02	.3850	2.338	545.7
158	78.000	.31000	797.00	.1195	.8380-01	.1638	.9183	.4102-02	.8022-02	.4540	2.745	550.9
158	78.000	.32000	798.00	.1386	.9540-01	.1943	.9183	.4673-02	.9516-02	.4960	2.979	555.3
158	78.000	.32500	799.00	.1617	.1106	.2286	.9183	.5417-02	.1119-01	.5670	3.412	556.8
158	78.000	.33000	800.00	.1721	.1172	.2448	.9183	.5742-02	.1199-01	.5960	3.581	557.8
158	78.000	.33500	801.00	.2005	.1356	.2876	.9183	.6643-02	.1409-01	.6800	4.082	559.3
158	78.000	.34000	802.00	.2004	.1355	.2878	.9183	.6637-02	.1410-01	.6780	4.073	559.4
158	78.000	.34500	803.00	.2148	.1462	.3056	.9183	.7163-02	.1497-01	.7420	4.476	557.9
158	78.000	.35000	804.00	.2067	.1422	.2900	.9183	.6966-02	.1420-01	.7390	4.459	555.5
158	78.000	.35500	805.00	.2021	.1402	.2808	.9183	.6865-02	.1375-01	.7410	4.476	553.6
158	78.000	.36000	806.00	.1708	.1195	.2346	.9183	.5854-02	.1149-01	.6450	3.912	551.3
158	78.000	.36500	807.00	.1323	.9320-01	.1802	.9183	.4563-02	.8825-02	.5110	3.109	549.6
158	78.000	.37000	808.00	.1123	.7990-01	.1511	.9183	.3914-02	.7402-02	.4490	2.743	546.9
158	78.000	.37500	809.00	.8440-01	.6050-01	.1128	.9183	.2961-02	.5524-02	.3450	2.111	545.0
158	78.000	.38000	810.00	.7060-01	.5080-01	.9380-01	.9183	.2486-02	.4593-02	.2930	1.803	543.7
158	78.000	.39000	811.00	.6200-01	.4490-01	.8190-01	.9183	.2198-02	.4010-02	.2630	1.624	541.9
158	78.000	.40000	812.00	.4240-01	.3080-01	.5570-01	.9183	.1511-02	.2726-02	.1830	1.132	540.4
196	90.000	.40000-01	985.00	.5008	.3423	.4691	.9573	.1620-01	.2220-01	1.699	10.99	559.1
196	90.000	.50000-01	986.00	.4692	.3222	.4537	.9537	.1525-01	.2147-01	1.615	10.39	558.1
196	90.000	.60000-01	987.00	.3481	.2322	.3469	.9503	.1099-01	.1642-01	1.097	7.155	564.2
196	90.000	.70000-01	988.00	.3130	.2113	.3220	.9471	.1000-01	.1524-01	1.022	6.817	561.8
196	90.000	.80000-01	989.00	.2644	.1801	.2801	.9440	.8525-02	.1326-01	.8880	6.251	559.8
196	90.000	.10000+00	990.00	.2288	.1601	.2543	.9383	.7580-02	.1204-01	.8380	5.452	553.4
196	90.000	.15000	991.00	.1293	.9190-01	.1590	.9271	.4350-02	.7526-02	.4990	3.660	549.2
158	90.000	.20000	813.00	.3520-01	.2570-01	.4590-01	.9184	.1256-02	.2249-02	.1540	1.121	539.3
158	90.000	.24000	814.00	.2940-01	.2150-01	.3850-01	.9183	.1051-02	.1887-02	.1280	1.042	539.5
158	90.000	.27000	816.00	.2350-01	.1710-01	.3070-01	.9183	.8369-03	.1504-02	.1020	.7270	539.7
158	90.000	.29000	817.00	.1209	.8440-01	.1666	.9183	.4133-02	.8161-02	.4530	2.805	552.0
158	90.000	.30000	818.00	.2067	.1364	.3071	.9183	.6682-02	.1504-01	.6500	3.936	564.3
158	90.000	.31000	819.00	.2302	.1537	.3364	.9183	.7526-02	.1647-01	.7490	4.505	562.0
158	90.000	.32000	820.00	.2333	.1556	.3411	.9183	.7623-02	.1671-01	.7580	4.546	562.1
158	90.000	.32500	821.00	.2410	.1601	.3543	.9183	.7843-02	.1735-01	.7730	4.625	562.9
158	90.000	.33000	822.00	.2651	.1738	.3974	.9183	.8511-02	.1946-01	.8170	4.896	565.5
158	90.000	.33500	823.00	.3188	.2029	.4997	.9183	.9936-02	.2447-01	.9040	5.416	570.6
158	90.000	.34000	824.00	.3978	.2520	.6283	.9183	.1234-01	.3077-01	1.114	6.632	571.3
158	90.000	.34500	825.00	.5025	.3011	.8724	.9183	.1475-01	.4273-01	1.217	7.242	579.0
158	90.000	.35000	826.00	.5382	.2983	1.099	.9183	.1461-01	.5381-01	1.084	6.420	587.4
158	90.000	.36000	828.00	.3629	.2274	.5831	.9183	.1114-01	.2856-01	.9870	5.872	572.9

(RV7F23)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
158	90.000	.36500	829.00	.2337	.1616	.3259	.9183	.7914-02	.1596-01	.8480	5.109	554.3
158	90.000	.37000	830.00	.1170	.8370-01	.1564	.9183	.4100-02	.7662-02	.4770	2.891	545.3
158	90.000	.37500	831.00	.8040-01	.5830-01	.1059	.9183	.2857-02	.5186-02	.3440	2.101	541.2
158	90.000	.38000	832.00	.6330-01	.4600-01	.8300-01	.9183	.2252-02	.4067-02	.2730	1.668	540.4
158	90.000	.39000	833.00	.6010-01	.4350-01	.7930-01	.9183	.2129-02	.3886-02	.2540	1.572	542.0
158	90.000	.40000	834.00	.5960-01	.4310-01	.7870-01	.9183	.2109-02	.3853-02	.2520	1.560	542.1
158	90.000	.50000	835.00	.2340-01	.1700-01	.3080-01	.9183	.8331-03	.1510-02	.1000+00	.6370	540.9
158	90.000	.60000	836.00	.5090-01	.3690-01	.6700-01	.9183	.1805-02	.3281-02	.2170	1.449	541.4
158	90.000	.70000	837.00	.5700-01	.4100-01	.7590-01	.9183	.2006-02	.3719-02	.2360	1.660	544.2
158	90.000	.80000	838.00	.6190-01	.4470-01	.8180-01	.9183	.2188-02	.4006-02	.2610	1.623	542.4
158	90.000	.90000	839.00	.1280	.9020-01	.1745	.9183	.4417-02	.8546-02	.4940	3.154	549.7
158	112.50	.23000	840.00	.3860-01	.2810-01	.5060-01	.9184	.1378-02	.2476-02	.1680	1.357	539.8
158	112.50	.30000	843.00	.7190-01	.5180-01	.9540-01	.9183	.2538-02	.4671-02	.3000	1.790	543.2
158	112.50	.33000	844.00	.1322	.9380-01	.1785	.9183	.4593-02	.8744-02	.5230	3.152	547.7
158	112.50	.35000	845.00	.1718	.1198	.2371	.9183	.5868-02	.1161-01	.6410	3.919	552.3
158	112.50	.37000	846.00	.1484	.1050	.2010	.9183	.5143-02	.9844-02	.5820	3.584	548.4
158	112.50	.40000	847.00	.5780-01	.4210-01	.7550-01	.9183	.2064-02	.3697-02	.2530	1.580	539.2
158	112.50	.45000	848.00	.3930-01	.2870-01	.5120-01	.9183	.1408-02	.2508-02	.1730	1.094	538.4
158	112.50	.50000	849.00	.3940-01	.2860-01	.5180-01	.9183	.1402-02	.2536-02	.1700	1.094	540.6
158	112.50	.55000	850.00	.2290-01	.1670-01	.2990-01	.9183	.8160-03	.1466-02	.9900-01	.6570	539.7
158	112.50	.60000	851.00	.3680-01	.2690-01	.4810-01	.9183	.1318-02	.2355-02	.1620	1.088	538.8
158	112.50	.65000	852.00	.7400-01	.5360-01	.9760-01	.9183	.2626-02	.4780-02	.3150	2.149	541.6
158	112.50	.70000	853.00	.7150-01	.5130-01	.9530-01	.9183	.2513-02	.4669-02	.2940	2.067	544.5
158	112.50	.75000	854.00	.5840-01	.4240-01	.7670-01	.9183	.2076-02	.3754-02	.2510	1.633	540.6
158	112.50	.80000	855.00	.7550-01	.5490-01	.9910-01	.9183	.2687-02	.4853-02	.3260	2.124	540.4
158	112.50	.90000	856.00	.1208	.8590-01	.1629	.9183	.4206-02	.7976-02	.4810	3.118	547.2
158	125.40	.84000	857.00	.7030-01	.5060-01	.9330-01	.9183	.2481-02	.4569-02	.2930	1.816	543.3
158	125.40	.85000	858.00	.6860-01	.4950-01	.9080-01	.9183	.2422-02	.4449-02	.2870	1.789	542.9
158	125.40	.86000	859.00	.5650-01	.4090-01	.7460-01	.9183	.2004-02	.3654-02	.2400	1.507	541.8
158	125.40	.87000	860.00	.5320-01	.3840-01	.7030-01	.9183	.1882-02	.3442-02	.2240	1.414	542.3
158	125.40	.88000	861.00	.6630-01	.4780-01	.8800-01	.9183	.2340-02	.4311-02	.2770	1.742	543.3
158	125.40	.89000	862.00	.8020-01	.5740-01	.1073	.9183	.2811-02	.5254-02	.3270	2.067	545.3
158	125.40	.90000	863.00	.7670-01	.5480-01	.1025	.9183	.2686-02	.5021-02	.3120	1.986	545.3
158	125.40	.91000	864.00	.1137	.8050-01	.1539	.9183	.3942-02	.7537-02	.4470	3.245	548.2
158	125.40	.92600	865.00	.2081	.1430	.2924	.9183	.7005-02	.1432-01	.7410	5.346	555.8
158	129.30	.80000	866.00	.5500-01	.4000-01	.7200-01	.9183	.1960-02	.3527-02	.2380	1.504	539.9
158	129.30	.81000	867.00	.5760-01	.4190-01	.7550-01	.9183	.2050-02	.3698-02	.2490	1.558	540.3
158	129.30	.82000	868.00	.6020-01	.4370-01	.7910-01	.9183	.2140-02	.3872-02	.2590	1.621	540.7
158	129.30	.83000	869.00	.6550-01	.4720-01	.8680-01	.9183	.2312-02	.4250-02	.2740	1.721	543.0
158	135.00	.40000-01	870.00	.5088	.3455	.4759	.9573	.1692-01	.2331-01	1.744	11.15	558.5
158	135.00	.50000-01	871.00	.4866	.3338	.4704	.9538	.1635-01	.2304-01	1.722	10.96	556.2
158	135.00	.60000-01	872.00	.3418	.2280	.3406	.9504	.1117-01	.1668-01	1.110	7.313	562.2
158	135.00	.70000-01	873.00	.3102	.2092	.3192	.9471	.1024-01	.1563-01	1.040	7.029	560.0

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F23)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
158	135.00	.10000+00	875.00	.2285	.1603	.2536	.9383	.7852-02	.1242-01	.8710	5.703	550.7
158	135.00	.15000	876.00	.1316	.9310-01	.1623	.9271	.4561-02	.7947-02	.5160	3.775	548.3
158	135.00	.20000	877.00	.6410-01	.4650-01	.8280-01	.9202	.2277-02	.4054-02	.2740	1.853	541.2
158	135.00	.35000	878.00	.6030-01	.4380-01	.7920-01	.9183	.2145-02	.3877-02	.2600	1.819	540.5
158	135.00	.40000	879.00	.6000-01	.4350-01	.7890-01	.9183	.2131-02	.3866-02	.2570	1.832	541.1
158	135.00	.50000	880.00	.6820-01	.4900-01	.9070-01	.9183	.2401-02	.4444-02	.2820	1.942	544.0
158	135.00	.55000	881.00	.8790-01	.6270-01	.1178	.9183	.3072-02	.5769-02	.3550	2.367	545.9
158	135.00	.60000	882.00	.8280-01	.5940-01	.1104	.9183	.2908-02	.5409-02	.3400	2.288	544.6
158	135.00	.65000	883.00	.8040-01	.5790-01	.1066	.9183	.2834-02	.5222-02	.3350	2.291	543.3
158	135.00	.70000	884.00	.6970-01	.5030-01	.9230-01	.9183	.2462-02	.4519-02	.2920	2.081	542.8
158	135.00	.75000	885.00	.5750-01	.4170-01	.7590-01	.9183	.2040-02	.3715-02	.2450	1.545	541.7
196	135.00	.84000	887.00	.5580-01	.4030-01	.7390-01	.9183	.1972-02	.3619-02	.2350	1.478	544.2
196	135.00	.85000	888.00	.7370-01	.5330-01	.9730-01	.9183	.2522-02	.4605-02	.3020	1.920	544.1
196	135.00	.86000	889.00	.6410-01	.4660-01	.8390-01	.9183	.2207-02	.3973-02	.2690	1.706	542.0
196	135.00	.87000	890.00	.6840-01	.4980-01	.8980-01	.9183	.2356-02	.4250-02	.2870	1.827	542.3
196	135.00	.89000	892.00	.8390-01	.6060-01	.1111	.9183	.2868-02	.5256-02	.3420	2.229	544.6
196	135.00	.90000	893.00	.9040-01	.6510-01	.1201	.9183	.3080-02	.5685-02	.3650	2.402	545.6
196	135.00	.91000	894.00	.5950-01	.4280-01	.7900-01	.9183	.2025-02	.3740-02	.2400	1.749	545.7
196	135.00	.92600	895.00	.7740-01	.5470-01	.1050	.9183	.2587-02	.4972-02	.2930	2.122	550.9
196	135.00	.95000	896.00	.6150-01	.4510-01	.8000-01	.9183	.2133-02	.3785-02	.2650	1.923	539.7
196	142.30	.42000	897.00	.1209	.8670-01	.1612	.9183	.4102-02	.7627-02	.4810	3.096	546.6
196	142.30	.43500	898.00	.1929	.1358	.2631	.9183	.6427-02	.1245-01	.7210	4.492	551.9
196	142.30	.45000	899.00	.1450	.1036	.1942	.9183	.4903-02	.9192-02	.5700	3.728	547.7
196	142.30	.50000	900.00	.1326	.9460-01	.1781	.9183	.4475-02	.8431-02	.5170	3.443	548.4
196	142.30	.60000	901.00	.6510-01	.4760-01	.8500-01	.9183	.2252-02	.4021-02	.2780	1.849	540.7
196	142.30	.70000	902.00	.7730-01	.5640-01	1012	.9183	.2668-02	.4788-02	.3270	2.237	541.5
196	142.30	.80000	903.00	.6790-01	.4980-01	.8840-01	.9183	.2355-02	.4183-02	.2920	1.864	539.9
196	142.30	.87000	904.00	.7500-01	.5410-01	.3950-01	.9183	.2559-02	.4710-02	.3040	1.923	545.2
196	154.98	.42000	905.00	.1252	.8930-01	.,679	.9183	.4228-02	.7949-02	.4900	3.157	548.1
196	154.98	.43500	906.00	.1408	.1003	.1393	.9183	.4747-02	.8960-02	.5480	3.549	548.6
196	154.98	.45000	907.00	.1202	.8630-01	.1599	.9183	.4086-02	.7569-02	.4820	3.144	546.1
196	154.98	.50000	908.00	.1175	.8370-01	.1579	.9183	.3961-02	.7475-02	.4570	3.267	548.6
196	154.98	.93500	913.00	.1868	.1264	.2679	.9183	.5981-02	.1268-01	.6140	4.432	561.3
196	154.98	.94500	914.00	.1514	.1040	.2128	.9183	.4922-02	.1007-01	.5220	3.739	557.9
196	157.50	.80000-01	919.00	.2874	.1985	.3037	.9440	.9393-02	.1437-01	1.008	6.845	556.7
196	157.50	.20000	922.00	.6800-01	.4970-01	.8710-01	.9202	.2354-02	.4123-02	.2910	1.942	540.5
196	157.50	.42000	923.00	.1076	.7750-01	.1428	.9183	.3668-02	.6760-02	.4350	2.841	545.4
196	157.50	.43500	924.00	.1432	.1021	.1921	.9183	.4834-02	.9091-02	.5600	3.662	548.1
196	157.50	.45000	925.00	.1419	.1011	.1907	.9183	.4784-02	.9025-02	.5520	3.642	548.6
196	157.50	.85000	926.00	.4770-01	.3480-01	.6230-01	.9183	.1648-02	.2949-02	.2030	1.313	541.1
196	157.50	.86000	927.00	.8810-0;	.6410-01	.1157	.9183	.3033-02	.5474-02	.3690	2.399	542.3
196	157.50	.87000	928.00	.7720-01	.5560-01	.1024	.9183	.2632-02	.4845-02	.3130	2.034	545.2
196	157.50	.88000	929.00	.1100	.7850-01	.1476	.9183	.3716-02	.6985-02	.4310	2.817	548.1

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F23)

(IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TH DEG. R
196	157.50	.89000	930.00	.1270	.8980-01	.1722	.9183	.4252-02	.8149-02	.4820	3.169	550.6
196	157.50	.90000	931.00	.1018	.7190-01	.1383	.9183	.3404-02	.6547-02	.3850	2.587	551.0
196	157.50	.91000	932.00	.7180-01	.5030-01	.9850-01	.9183	.2380-02	.4660-02	.2640	1.924	553.1
196	157.50	.92600	933.00	.1038	.7140-01	.1457	.9193	.3379-02	.6898-02	.3590	2.607	557.6
196	163.12	.41500	934.00	.9550-01	.6910-01	.1259	.9183	.3272-02	.5956-02	.3940	2.559	543.6
196	163.12	.42000	935.00	.1033	.7450-01	.1369	.9183	.3525-02	.6479-02	.4190	2.746	545.0
196	163.12	.43000	937.00	.1578	.1108	.2160	.9183	.5244-02	.1022-01	.5840	3.821	552.6
196	163.12	.44000	938.00	.2096	.1438	.2950	.9183	.6808-02	.1396-01	.7210	4.689	558.1
196	163.12	.44500	939.00	.1897	.1309	.2652	.9183	.6196-02	.1255-01	.6640	4.386	556.9
196	163.12	.45000	940.00	.1856	.1292	.2565	.9183	.6117-02	.1214-01	.6690	4.424	554.7
196	163.12	.50000	941.00	.1181	.8390-01	.1591	.9183	.3973-02	.7532-02	.4560	3.090	549.2
196	163.12	.60000	942.00	.1182	.8510-01	.1570	.9183	.4026-02	.7430-02	.4770	3.076	545.6
196	163.12	.70000	943.00	.7680-01	.5610-01	.1003	.9183	.2654-02	.4748-02	.3270	2.249	541.0
196	163.12	.80000	944.00	.5600-01	.4810-01	.8610-01	.9183	.2277-02	.4077-02	.2800	1.830	541.1
196	168.00	.35000	945.00	.4360-01	.3210-01	.5640-01	.9183	.1519-02	.2672-02	.1910	1.215	538.3
196	168.00	.36000	946.00	.5060-01	.3720-01	.6560-01	.9183	.1760-02	.3104-02	.2200	1.407	538.7
196	168.00	.37000	947.00	.9070-01	.6590-01	.1191	.9183	.3119-02	.5636-02	.3790	2.420	542.5
196	168.00	.37500	948.00	.9730-01	.7040-01	.1282	.9183	.3334-02	.6066-02	.4020	2.564	543.5
196	168.00	.38500	950.00	.6830-01	.5000-01	.8910-01	.9183	.2365-02	.4215-02	.2920	1.890	540.4
196	168.00	.39000	951.00	.6990-01	.5100-01	.9140-01	.9183	.2412-02	.4327-02	.2960	1.922	541.4
196	168.00	.39500	952.00	.6750-01	.4920-01	.8830-01	.9183	.2327-02	.4181-02	.2850	1.825	541.6
196	168.00	.40000	953.00	.6340-01	.4610-01	.8320-01	.9183	.2183-02	.3937-02	.2660	1.734	542.2
196	168.00	.40500	954.00	.7360-01	.5340-01	.9690-01	.9183	.2527-02	.4586-02	.3050	1.995	543.2
196	168.00	.41000	955.00	.7810-01	.5630-01	.1033	.9183	.2667-02	.4889-02	.3180	2.079	544.6
196	168.00	.41500	956.00	.9720-01	.6970-01	.1296	.9183	.3300-02	.6134-02	.3870	2.535	546.6
196	168.00	.42000	957.00	.1084	.7740-01	.1453	.9183	.3662-02	.6879-02	.4250	2.786	548.0
196	168.00	.42500	958.00	.1225	.8750-01	.1642	.9183	.4141-02	.7771-02	.4810	3.154	547.9
196	168.00	.43000	959.00	.1941	.1334	.2726	.9183	.6316-02	.1290-01	.6710	4.368	557.7
196	168.00	.44000	960.00	.2430	.1673	.3408	.9183	.7916-02	.1613-01	.8440	5.506	557.4
196	168.00	.44500	961.00	.2284	.1586	.3166	.9183	.7508-02	.1498-01	.8160	5.334	555.3
196	168.00	.45000	962.00	.1906	.1329	.2628	.9183	.6291-02	.1244-01	.6900	4.541	554.2
196	168.00	.45500	963.00	.1824	.1268	.2526	.9183	.6002-02	.1196-01	.6540	4.298	555.1
196	168.00	.46000	964.00	.1623	.1122	.2264	.9183	.5312-02	.1071-01	.5710	3.777	556.4
196	168.00	.47000	965.00	.1361	.9560-01	.1859	.9183	.4525-02	.8800-02	.5050	3.357	552.3
196	168.00	.48000	966.00	.1141	.8100-01	.1540	.9183	.3831-02	.7290-02	.4380	2.940	549.7
196	168.00	.49000	967.00	.9980-01	.7190-01	.1323	.9183	.3404-02	.6260-02	.4050	2.724	545.1
196	168.00	.85000	968.00	.5630-01	.4090-01	.7400-01	.9183	.1936-02	.3500-02	.2350	1.527	542.6
196	168.00	.86000	969.00	.6330-01	.4580-01	.8350-01	.9183	.2166-02	.3952-02	.2600	1.694	543.9
196	168.00	.87000	970.00	.7400-01	.5310-01	.9880-01	.9183	.2512-02	.4676-02	.2940	1.921	546.8
196	168.00	.89000	971.00	.1505	.1053	.2057	.9183	.5011-02	.9734-02	.5600	3.657	552.2
196	168.00	.89000	972.00	.1595	.1110	.2175	.9183	.5254-02	.1029-01	.5820	3.853	553.2
196	168.00	.90000	973.00	.1065	.7540-01	.1483	.9183	.3614-02	.7020-02	.4040	2.742	552.2
196	168.00	.91000	974.00	.8080-01	.5660-01	.1109	.9183	.2679-02	.5249-02	.2970	2.158	553.2

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F23)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
196	168.00	.92600	975.00	.1067	.7300-01	.1509	.9183	.3456-02	.7142-02	.3630	2.616	558.9
196	168.00	.95000	976.00	.4410-01	.3240-01	.5710-01	.9183	.1532-02	.2704-02	.1920	1.386	538.8
196	180.00	.20000-01	982.00	.1771	.1277	.1614	.9626	.6043-02	.7639-02	.7180	4.999	545.1
196	180.00	.25000-01	983.00	.4022	.2821	.3690	.9605	.1335-01	.1747-01	1.485	10.23	552.8
196	180.00	.30000-01	984.00	.6984	.4683	.6425	.9588	.2217-01	.3041-01	2.234	15.21	563.2
156	180.00	.40000-01	600.00	.5391	.3699	.5054	.9573	.1813-01	.2478-01	1.919	12.27	558.4
156	180.00	.50000-01	601.00	.4567	.3159	.4420	.9537	.1549-01	.2167-01	1.669	10.71	556.5
156	180.00	.60000-01	602.00	.3548	.2374	.3537	.9503	.1164-01	.1734-01	1.168	7.711	563.9
156	180.00	.70000-01	603.00	.3195	.2149	.3289	.9471	.1054-01	.1612-01	1.069	7.237	562.8
156	180.00	.80000-01	604.00	.2956	.2014	.3132	.9440	.9873-02	.1536-01	1.029	6.649	560.1
156	180.00	.10000+00	605.00	.2038	.1417	.2271	.9383	.6945-02	.1114-01	.7560	5.406	555.3
156	180.00	.15000	606.00	.1177	.8280-01	.1459	.9271	.4059-02	.7155-02	.4550	3.296	552.3
156	180.00	.20000	607.00	.6000-01	.4330-01	.7800-01	.9202	.2122-02	.3825-02	.2520	1.648	545.3
156	180.00	.21000	608.00	.4720-01	.3410-01	.6160-01	.9194	.1673-02	.3020-02	.2010	1.389	544.2
156	180.00	.22000	609.00	.4050-01	.2930-01	.5310-01	.9188	.1436-02	.2601-02	.1730	1.289	543.9
156	180.00	.30000	610.00	.2880-01	.2090-01	.3790-01	.9183	.1025-02	.1859-02	.1240	.8510	543.2
156	180.00	.35000	611.00	.3790-01	.2740-01	.4990-01	.9183	.1343-02	.2449-02	.1610	1.076	544.1
156	180.00	.36000	612.00	.4740-01	.3410-01	.6290-01	.9183	.1672-02	.3082-02	.1980	1.334	545.7
156	180.00	.37000	613.00	.8540-01	.6090-01	.1148	.9183	.2984-02	.5629-02	.3450	2.314	548.8
156	180.00	.37500	614.00	.8500-01	.6060-01	.1142	.9183	.2971-02	.5600-02	.3430	2.306	548.7
156	180.00	.38000	615.00	.7830-01	.5590-01	.1050	.9183	.2742-02	.5147-02	.3190	2 139	548.1
156	180.00	.38500	616.00	.7310-01	.5210-01	.9820-01	.9183	.2553-02	.4815-02	.2950	1.981	548.7
156	180.00	.39000	617.00	.6810-01	.4840-01	.9170-01	.9183	.2375-02	.4497-02	.2730	1.827	549.3
156	180.00	.39500	618.00	.6040-01	.4290-01	.8170-01	.9183	.2101-02	.4005-02	.2400	1.615	550.1
155	180.00	.40000	619.00	.6270-01	.4420-01	.8530-01	.9183	.2169-02	.4180-02	.2450	1.636	551.5
156	180.00	.40500	620.00	.7760-01	.5450-01	.1061	.9183	.2673-02	.5203-02	.2980	1.999	552.7
156	180.00	.41000	621.00	.9230-01	.6430-01	.1277	.9183	.3150-02	.6261-02	.3440	2.303	555.0
156	180.00	.41500	622.00	.1234	.8510-01	.1726	.9183	.4170-02	.8470-02	.4460	2.971	557.4
156	180.00	.42500	624.00	.1764	.1183	.2562	.9183	.5799-02	.1256-01	.5850	3.885	563.4
155	180.00	.43000	625.00	.2081	.1374	.3087	.9183	.6736-02	.1513-01	.6590	4.385	566.5
156	180.00	.44000	626.00	.2967	.1896	.4622	.9183	.9293-02	.2266-01	.8550	5.673	572.3
156	180.00	.44500	627.00	.3154	.2012	.4928	.9183	.9865-02	.2416-01	.9050	6.059	572.5
156	180.00	.45000	628.00	.2721	.1787	.4071	.9183	.8761-02	.1995-01	.8480	5.690	567.5
156	180.00	.45500	629.00	.2077	.1410	.2967	.9183	.6910-02	.1454-01	.7140	4.886	560.9
156	180.00	.46000	630.00	.1598	.1109	.2217	.9183	.5438-02	.1087-01	.5910	3.952	555.7
156	180.00	.47000	631.00	.8610-01	.6120-01	.1161	.9183	.3000-02	.5683-02	.3440	2.312	549.5
156	180.00	.48000	632.00	.4090-01	.2910-01	.5510-01	.9183	.1425-02	.2701-02	.1640	1.105	549.4
156	180.00	.49000	633.00	.8440-01	.5920-01	.1155	.9183	.2902-02	.5661-02	.3230	2.199	552.9
156	180.00	.50000	634.00	.1544	.1059	.2174	.9183	.5193-02	.1066-01	.5500	3.824	558.4
156	180.00	.55000	635.00	.1241	.8670-01	.1708	.9183	.4248-02	.8374-02	.4680	3.097	554.1
156	180.00	.60000	636.00	.1374	.9680-01	.1873	.9183	.4743-02	.9182-02	.5320	3.424	552.0
156	180.00	.65000	637.00	.1306	.9190-01	.1780	.9183	.4506-02	.8726-02	.5060	3.262	552.0
156	180.00	.70000	638.00	.9500-01	.6740-01	.1282	.9183	.3305-02	.6284-02	.3780	2.585	549.8

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
156	180.00	.75000	639.00	.6390-01	.4620-01	.8450-01	.9183	.2265-02	.4141-02	.2710	1.752	544.5
156	180.00	.80000	640.00	.6240-01	.4490-01	.8300-01	.9183	.2200-02	.4067-02	.2600	1.632	546.0
156	180.00	.85000	641.00	.6550-01	.4660-01	.8810-01	.9183	.2285-02	.4319-02	.2630	1.663	549.0
156	180.00	.86000	642.00	.6080-01	.4320-01	.8200-01	.9183	.2116-02	.4022-02	.2420	1.551	549.8
156	180.00	.87000	643.00	.6040-01	.4260-01	.8210-01	.9183	.2090-02	.4024-02	.2360	1.519	551.3
156	180.00	.88000	644.00	.1079	.7520-01	.1490	.9183	.3684-02	.7305-02	.4030	2.614	554.8
156	180.00	.89000	645.00	.1098	.7640-01	.1518	.9183	.3745-02	.7441-02	.4090	2.682	555.0
156	180.00	.90000	646.00	.6920-01	.4840-01	.9510-01	.9183	.2372-02	.4664-02	.2620	1.755	553.8
156	180.00	.92600	648.00	.7980-01	.5280-01	.1182	.9183	.2587-02	.5794-02	.2540	1.632	566.2
156	180.00	.95000	649.00	.3420-01	.2460-01	.4530-01	.9183	.1208-02	.2221-02	.1440	1.039	545.3
156	191.25	.35000	650.00	.4450-01	.3210-01	.5890-01	.9183	.1572-02	.2887-02	.1870	1.260	545.1
156	191.25	.35000	651.00	.6340-01	.4550-01	.8460-01	.9183	.2231-02	.4147-02	.2620	1.767	546.8
156	191.25	.37000	652.00	.8430-01	.6000-01	.1132	.9183	.2943-02	.5549-02	.3400	2.284	548.7
156	191.25	.37500	653.00	.7870-01	.5600-01	.1058	.9183	.2747-02	.5186-02	.3170	2.135	548.9
156	191.25	.38000	654.00	.7420-01	.5290-01	.9970-01	.9183	.2592-02	.4885-02	.3000	2.018	548.7
156	191.25	.38500	655.00	.7330-01	.5220-01	.9870-01	.9183	.2557-02	.4841-02	.2940	1.981	549.2
156	191.25	.39000	656.00	.8540-01	.6050-01	.1155	.9183	.2968-02	.5663-02	.3380	2.277	550.2
156	191.25	.39500	657.00	.6060-01	.4260-01	.8270-01	.9183	.2086-02	.4056-02	.2330	1.567	552.5
156	191.25	.40000	658.00	.6670-01	.4680-01	.9130-01	.9183	.2295-02	.4475-02	.2560	1.723	552.9
156	191.25	.41000	660.00	.1132	.7900-01	.1560	.9183	.3875-02	.7649-02	.4260	2.862	554.3
156	191.25	.41500	661.00	.1169	.8160-01	.1611	.9183	.4001-02	.7897-02	.4400	2.948	554.2
156	191.25	.42000	662.00	.1371	.9430-01	.1926	.9183	.4624-02	.9439-02	.4920	3.297	557.9
156	191.25	.42500	663.00	.1636	.1113	.2332	.9183	.5455-02	.1143-01	.5660	3.803	560.5
156	191.25	.43000	664.00	.2069	.1368	.3066	.9183	.6705-02	.1503-01	.6570	4.440	566.3
156	191.25	.44000	665.00	.2295	.1528	.3367	.9183	.7489-02	.1651-01	.7440	5.001	564.9
156	191.25	.45000	666.00	.1925	.1318	.2721	.9183	.6460-02	.1334-01	.6800	4.583	559.0
156	191.25	.45500	667.00	.1742	.1190	.2468	.9183	.5835-02	.1210-01	.6120	4.123	559.4
156	191.25	.46000	668.00	.1602	.1093	.2273	.9183	.5360-02	.1114-01	.5600	3.788	559.7
156	191.25	.47000	669.00	.1380	.9520-01	.1932	.9183	.4665-02	.9470-02	.4990	3.387	557.3
156	191.25	.48000	670.00	.1368	.9480-01	.1902	.9183	.4647-02	.9324-02	.5030	3.415	556.1
156	191.25	.49000	671.00	.1441	.9950-01	.2013	.9183	.4880-02	.9871-02	.5240	3.546	556.9
156	191.25	.50000	672.00	.1482	.1021	.2076	.9183	.5007-02	.1018-01	.5350	3.699	557.4
156	191.25	.60000	673.00	.9890-01	.7050-01	.1327	.9183	.3457-02	.6504 02	.4000	2.566	548.4
156	191.25	.70000	674.00	.1304	.9090-01	.1800	.9183	.4457-02	.8822-02	.4890	3.313	554.6
156	191.25	.85000	675.00	.5930-01	.4220-01	.7980-01	.9183	.2070-02	.3912-02	.2380	1.506	549.0
156	191.25	.86000	677.00	.4860-01	.3450-01	.6550-01	.9183	.1691-02	.3212-02	.1940	1.238	549.6
156	191.25	.87000	678.00	.5460-01	.3860-01	.7410-01	.9183	.1893-02	.3634-02	.2140	1.379	551.0
156	191.25	.88000	679.00	.4900-01	.3440-01	.6690-01	.9183	.1689-02	.3281-02	.1890	1.228	552.5
156	191.25	.89000	680.00	.5150-01	.3600-01	.7100-01	.9183	.1765-02	.3479-02	.1940	1.283	554.1
156	191.25	.90000	681.00	.5230-01	.3630-01	.7270-01	.9183	.1778-02	.3565-02	.1930	1.292	556.0
156	191.25	.91000	682.00	.3350-01	.2330-01	.4680-01	.9183	.1140-02	.2294-02	.1230	.8930	556.4
156	191.25	.92500	683.00	.1054	.7000-01	.1560	.9183	.3431-02	.7600-02	.3390	2.461	565.3
156	191.25	.95000	684.00	.2040-01	.1470-01	.2710-01	.9183	.7204-03	.1327-02	.6500-01	.6180	545.5

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F23)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
156	197.00	.33000	685.00	.3810-01	.2770-01	.5020-01	.9183	.1356-02	.2460-02	.1640	1.103	543.4
156	197.00	.34000	686.00	.4000-01	.2890-01	.5270-01	.9183	.1418-02	.2586-02	.1700	1.147	544.1
156	197.00	.35000	687.00	.4170-01	.3010-01	.5510-01	.9183	.1477-02	.2703-02	.1770	1.189	544.6
156	197.00	.36000	688.00	.7440-01	.5330-01	.9940-01	.9183	.2613-02	.4873-02	.3060	2.055	547.2
156	197.00	.37000	689.00	.8350-01	.5960-01	.1119	.9183	.2924-02	.5486-02	.3400	2.282	548.1
156	197.00	.37500	690.00	.9170-01	.6500-01	.1240	.9183	.3185-02	.6081-02	.3630	2.442	550.3
156	197.00	.50000	691.00	.1961	.1281	.2956	.9183	.6278-02	.1449-01	.6010	3.997	568.5
156	197.00	.60000	692.00	.7010-01	.5000-01	.9410-01	.9183	.2452-02	.4611-02	.2840	1.830	548.4
156	197.00	.70000	693.00	.1537	.1033	.2225	.9183	.5063-02	.1091-01	.5130	3.451	563.0
156	197.00	.80000	694.00	.5010-01	.3620-01	.6630-01	.9183	.1775-02	.3248-02	.2120	1.336	544.6
156	197.00	.87000	695.00	.5030-01	.3550-01	.6830-01	.9183	.1741-02	.3350-02	.1970	1.251	551.3
156	197.00	.92600	696.00	.1512	.9980-01	.2245	.9183	.4893-02	.1101-01	.4780	3.464	566.6
196	209.80	.15000-01	697.00	.1897	.1399	.2448	.9184	.6821-02	.1158-01	.8390	5.788	538.7
157	209.80	.30000-01	698.00	.6497	.4416	.5998	.9598	.2163-01	.2938-01	2.234	15.11	558.2
157	209.80	.50000-01	699.00	.4740	.3308	.4592	.9537	.1620-01	.2249-01	1.773	11.24	552.0
157	209.80	.70000-01	700.00	.3794	.2533	.3908	.9471	.1240-01	.1914-01	1.234	8.279	562.0
157	209.80	.10000+00	701.00	.2525	.1766	.2807	.9383	.8551-02	.1315-01	.9520	6.057	551.4
157	209.80	.15000	702.00	.1054	.7520-01	.1292	.9271	.3683-02	.6328-02	.4250	3.043	546.1
157	209.80	.20000	703.00	.5600-01	.4090-01	.7170-01	.9202	.2004-02	.3513-02	.2460	1.647	538.6
157	209.80	.30000	704.00	.4780-01	.3460-01	.6300-01	.9183	.1596-02	.3084-02	.2040	1.447	541.4
157	209.80	.35000	705.00	.8500-01	.6120-01	.1129	.9183	.2995-02	.5532-02	.3530	2.420	543.6
157	209.80	.37500	706.00	.9320-01	.6630-01	.1256	.9183	.3247-02	.6152-02	.3720	2.551	547.1
157	209.80	.50000	707.00	.1614	.1119	.2245	.9183	.5480-02	.1099-01	.5900	4.027	553.8
157	209.80	.60000	708.00	.9930-01	.7140-01	.1319	.9183	.3498-02	.6462-02	.4120	2.631	543.7
157	209.80	.70000	709.00	.1008	.7210-01	.1348	.9183	.3531-02	.6600-02	.4100	2.617	545.3
157	209.80	.80000	710.00	.4110-01	.3020-01	.5340-01	.9183	.1480-02	.2614-02	.1840	1.154	537.0
157	209.80	.87000	711.00	.5620-01	.4060-01	.7430-01	.9183	.1987-02	.3640-02	.2370	1.498	542.5
157	209.80	.92600	712.00	.1263	.8620-01	.1792	.9183	.4222-02	.8778-02	.4400	3.180	557.4
157	217.70	.15000-01	713.00	.1664	.1208	.2187	.9183	.5915-02	.1071-01	.7140	4.933	540.8
157	217.70	.30000-01	714.00	.6251	.4262	.5776	.9588	.2088-01	.2829-01	2.170	14.69	557.5
157	217.70	.50000-01	715.00	.4571	.3211	.4431	.9537	.1572-01	.2170-01	1.748	11.38	550.3
157	217.70	.70000-01	716.00	.3319	.2226	.3418	.9471	.1090-01	.1674-01	1.094	7.415	561.1
157	217.70	.10000+00	717.00	.1873	.1337	.2066	.9383	.6548-02	.1012-01	.7570	4.912	545.9
157	217.70	.15000	718.00	.1031	.7330-01	.1267	.9271	.3588-02	.6206-02	.4100	3.002	547.1
157	217.70	.20000	719.00	.5140-01	.3770-01	.6560-01	.9202	.1848-02	.3213-02	.2300	1.555	537.3
157	217.70	.30000	720.00	.5150-01	.3720-01	.6800-01	.9183	.1823-02	.3330-02	.2180	1.561	542.1
157	217.70	.35000	721.00	.5790-01	.4210-01	.7610-01	.9183	.2059-02	.3727-02	.2490	1.730	540.7
157	217.70	.37500	722.00	.5570-01	.4030-01	.7350-01	.9183	.1975-02	.3600-02	.2370	1.644	541.7
157	217.70	.50000	723.00	.1540	.1070	.2135	.9183	.5238-02	.1046-01	.5670	3.907	553.2
157	217.70	.60000	724.00	.8370-01	.6090-01	.1097	.9183	.2984-02	.5370-02	.3630	2.329	539.9
157	217.70	.70000	725.00	.5950-01	.4340-01	.7790-01	.9183	.2124-02	.3818-02	.2590	1.650	539.7
157	217.70	.80000	726.00	.4620-01	.3390-01	.5980-01	.9183	.1661-02	.2931-02	.2070	1.309	536.7
157	217.70	.87000	727.00	.7340-01	.5280-01	.9760-01	.9183	.2585-02	.4782-02	.3040	1.947	543.9

DATE 03 JUN 76

AEDC V41A-A4A (IH-4) AERO-HEATING TEST ON INTEGRATED VEHICLE

IH4 (AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
157	217.70	.92600	728.00	.1121	.7760-01	.1563	.9183	.3800-02	.7654-02	.4080	2.954	554.2

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = .0000 BETA = .0000 GRIT = 4.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
124	5.300	4.985	.1000-01	.0000	.0000	177.8	.1910	741.0	135.0	4.046	2762.	.1526-03
125	5.500	4.969	-.1000-01	.0000	.0000	177.9	.1910	743.0	105.3	4.050	2766.	.1523-03
126	5.500	4.957	.1000-01	.0000	.0000	177.7	.1910	743.0	105.4	4.044	2767.	.1520-03
114	5.500	4.979	-.1000 01	.0000	.0000	178.0	.1910	742.0	105.2	4.051	2764.	.1526-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
124	.8457-07	.4474-01	.1362-01
125	.8480-07	.4478-01	.1364-01
126	.8486-07	.4476-01	.1365-01
114	.8471-07	.4478-01	.1363-01

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
125	.00000	.30000-02	730.00	.3954	.3087	.3660	.9643	.1382-01	.1639-01	2.341	15.86	573.2
125	.00000	.10300-01	731.00	.1126	.9180-01	.1352	.9130	.4113-02	.6056-02	.8290	5.723	541.2
125	.00000	.15000-01	732.00	.7040-01	.5770-01	.8430-01	.9130	.2582-02	.3773-02	.5280	3.611	537.9
125	.00000	.25000-01	734.00	.1150	.9190-01	.1101	.9598	.4117-02	.4933-02	.7520	5.159	557.4
125	.00000	.30000-01	735.00	.3864	.2971	.3706	.9571	.1330-01	.1659-01	2.137	14.37	582.0
125	.00000	.40000-01	737.00	.4992	.3873	.4836	.9556	.1734-01	.2166-01	2.972	18.46	577.0
125	.00000	.45000-01	738.00	.5203	.4037	.5091	.9538	.1808-01	.2260-01	2.996	19.54	576.9
125	.00000	.60000-01	739.00	.3363	.2599	.3390	.9486	.1164-01	.1518-01	1.901	12.57	579.2
125	.00000	.70000-01	740.00	.3033	.2350	.3118	.9453	.1052-01	.1335-01	1.733	11.54	577.9
125	.00000	.80000-01	741.00	.2458	.1909	.2573	.9422	.8551-02	.1152-01	1.423	10.20	576.1
125	.00000	.10000+00	742.00	.2255	.1778	.2435	.9363	.7961-02	.1091-01	1.355	9.226	567.3
125	.00000	.12500	743.00	.1531	.1201	.1724	.9297	.5378-02	.7719-02	.9260	6.655	570.4
125	.00000	.15000	744.00	.1138	.9060-01	.1312	.9240	.4056-02	.5977-02	.7390	5.101	550.4
125	.00000	.17500	745.00	.7100-01	.5710-01	.8350-01	.9193	.2556-02	.3739-02	.4840	3.625	553.2
125	.00000	.20000	746.00	.4210-01	.3410-01	.5020-01	.9158	.1525-02	.2247-02	.2970	2.123	547.9
125	.00000	.21500	747.00	.3520-01	.2850-01	.4220-01	.9143	.1276-02	.1891-02	.2500	1.733	546.7

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F23)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
125	.00000	.23000	748.00	.2600-01	.2110-01	.3140-01	.9133	.9433-03	.1406-02	.1850	1.365	546.8
125	.00000	.24000	749.00	.2020-01	.1640-01	.2440-01	.9130	.7340-03	.1093-02	.1440	1.089	546.0
125	.00000	.25000	750.00	.7800-02	.6300-02	.9400-02	.9130	.2832-03	.4207-03	.5600-01	.4530	544.9
125	.00000	.30000	751.00	.2400-01	.1950-01	.2900-01	.9130	.8724-03	.1299-02	.1720	1.126	545.9
125	.00000	.35000	752.00	.3200-01	.2590-01	.3860-01	.9130	.1162-02	.1729-02	.2290	1.447	545.6
125	.00000	.40000	753.00	.3850-01	.3120-01	.4670-01	.9130	.1397-02	.2091-02	.2720	1.746	548.0
125	.00000	.50000	754.00	.5390-01	.4320-01	.6590-01	.9130	.1934-02	.2950-02	.3630	2.365	555.0
125	.00000	60000	755.00	.5110-01	.4110-01	.6220-01	.9130	.1842-02	.2786-02	.3510	2.248	551.8
125	.00000	.70000	756.00	.3430-01	.2760-01	.4190-01	.9130	.1236-02	.1875-02	.2340	1.541	553.1
125	.00000	.80000	757.00	.3060-01	.2480-01	.3710-01	.9130	.1111-02	.1660-02	.2170	1.359	547.3
125	.00000	.90000	758.00	.1490-01	.1220-01	.1800-01	.9130	.5441-03	.8050-03	.1080	.7030	543.2
125	55.000	.2000	759.00	.3270-01	.2660-01	.3920-01	.9139	.1190-02	.1754-02	.2360	1.761	543.9
125	55.000	25000	760.00	.1120-01	.9100-02	.1350-01	.9130	.4091-03	.6036-03	.8200-01	.6440	542.2
125	55.000	.27000	761.00	.1060-01	.8600-02	.1270-01	.9130	.3841-03	.5697-03	.7600-01	.5670	544.3
125	55.000	.30000	762.00	.2980-01	.2420-01	.3580-01	.9130	.1085-02	.1604-02	.2170	1.306	542.8
125	55.000	.32000	763.00	.5160-01	.4190-01	.6220-01	.9130	.1876-02	.2787-02	.3710	2.194	545.0
125	55.000	.34000	764.00	.4290-01	.3480-01	.5180-01	.9130	.1558-02	.2319-02	.3070	1.820	545.7
125	55.000	.36000	765.00	.4610-01	.3740-01	.5580-01	.9130	.1676-02	.2497-02	.3290	1.981	546.1
125	55.000	.38000	766.00	.8480-01	.6830-01	.1032	.9130	.3061-02	.4622-02	.5850	3.550	551.3
125	55.000	.40000	767.00	.7860-01	.6330-01	.9570-01	.9130	.2833-02	.4288-02	.5390	3.361	552.2
125	67.500	.23000	768.00	.3070-01	.2490-01	.3690-01	.9133	.1117-02	.1652-02	.2220	1.654	543.8
125	67.500	.25000	769.00	.1130-01	.9200-02	.1360-01	.9130	.4113-03	.6069-03	.8200-01	.6430	542.1
125	67.500	.27000	770.00	.1400-01	.1140-01	.1690-01	.9130	.5105-03	.7572-03	.1010	.7400	544.2
125	67.500	.29000	771.00	.2170-01	.1760-01	.2610-01	.9130	.7899-03	.1170-02	.1570	.9760	543.6
125	67.500	.30000	772.00	.5040-01	.4080-01	.6100-01	.9130	.1826-02	.2731-02	.3560	2.175	547.6
125	67.500	.31000	773.00	.5580-01	.4520-01	.6770-01	.9130	.2022-02	.3030-02	.3930	2.380	548.3
125	67.500	.32000	774.00	.6490-01	.5250-01	.7860-01	.9130	.2350-02	.3520-02	4570	2.744	548.2
125	67.500	.32500	775.00	.7310-01	.5910-01	.8880-01	.9130	.2645-02	.3975-02	.511C	3.074	549.5
125	67.500	.33000	776.00	.8550-01	.6890-01	.1041	.9130	.3083-02	.4661-02	.5890	3.549	551.7
125	67.500	.33500	777.00	.1077	.8640-01	.1317	.9130	.3869-02	.5897-02	.7270	4.376	554.7
125	67.500	.34000	778.00	.1209	.9670-01	.1484	.9130	.4331-02	.6646-02	.8030	4.832	557.1
125	67.500	.34500	779.00	.1334	.1062	.1648	.9130	.4754-02	.7380-02	.8630	5.196	561.0
125	67.500	.35000	780.00	.1343	.1067	.1661	.9130	.4776-02	.7439-02	.8620	5.200	562.1
125	67.500	.35500	781.00	.1393	.1100	.1735	.9130	.4925-02	.7770-02	.8690	5.246	566.1
125	67.500	.36000	782.00	.1332	.1052	.1657	.9130	.4712-02	.7422-02	.8330	5.032	565.7
125	67.500	.36500	783.00	.1226	.9740-01	.1517	.9130	.4364-02	.6793-02	.7880	4.755	561.9
125	67.500	.37000	784.00	.1092	.8710-01	.1343	.9130	.3903-02	.6016-02	.7180	4.360	558.7
125	67.500	.37500	785.00	.9700-01	.7750-01	.1191	.9130	.3472-02	.5335-02	.6420	3.938	557.5
125	67.500	.38000	786.00	.8350-01	.6690-01	.1024	.9130	.2995-02	.4585-02	.5580	3.432	556.3
125	67.500	.39000	787.00	.6750-01	.5430-01	.8240-01	.9130	.2431-02	.3699-02	.4600	2.845	553.1
125	67.500	.40000	788.00	.5850-01	.4720-01	.7100-01	.9130	.2114-02	.3180-02	.4080	2.543	549.8
114	67.500	.50000	789.00	.1500-01	.1220-01	.1790-01	.9130	.5472-03	.8013-03	.1120	.7180	539.8
114	67.500	.60000	790.00	.2700-01	.2200-01	.3250-01	.9130	.9852-03	.1452-02	.1980	1.303	542.6

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
114	67.500	.70000	791.00	.2480-01	.2010-01	.2990-01	.9130	.9010-03	.1338-02	.1790	1.262	545.6
114	67.500	.80000	792.00	.1540-01	.1250-01	.1850-01	.9130	.5604-03	.8298-03	.1120	.7030	544.4
114	67.500	.90000	793.00	.4300-01	.3490-01	.5180-01	.9130	.1561-02	.2318-02	.3090	1.996	545.6
114	78.000	.27000	794.00	.1600-01	.1310-01	.1920-01	.9130	.5873-03	.8573-03	.1210	.8640	538.3
114	78.000	.29000	795.00	.6390-01	.5220-01	.7670-01	.9130	.2334-02	.3433-02	.4720	2.914	541.7
126	78.000	.30000	796.00	.1078	.8650-01	.1318	.9130	.3873-02	.5897-02	.7300	4.405	554.7
126	78.000	.31000	797.00	.1472	.1166	.1829	.9130	.5217-02	.8186-02	.9300	5.585	564.8
126	78.000	.32000	798.00	.1738	.1358	.2192	.9130	.6078-02	.9813-02	1.032	6.143	573.2
126	78.000	.32500	799.00	.1789	.1392	.2268	.9130	.6228-02	.1015-01	1.042	6.210	575.7
126	78.000	.33000	800.00	.1881	.1460	.2390	.9130	.6535-02	.1070-01	1.086	6.465	576.9
126	78.000	.33500	801.00	.1992	.1540	.2544	.9130	.6894-02	.1139-01	1.129	6.718	579.2
126	78.000	.34000	802.00	.2080	.1610	.2653	.9130	.7205-02	.1187-01	1.185	7.048	578.7
126	78.000	.34500	803.00	.2177	.1687	.2774	.9130	.7550-02	.1241-01	1.246	7.434	578.1
126	78.000	.35000	804.00	.2153	.1678	.2721	.9130	.7512-02	.1218-01	1.267	7.577	574.4
126	78.000	.35500	805.00	.2066	.1624	.2609	.9130	.7267-02	.1159-01	1.260	7.552	569.7
126	78.000	.36000	806.00	.1705	.1345	.2127	.9130	.6019-02	.9520-02	1.058	6.366	567.3
126	78.000	.36500	807.00	.1455	.1154	.1803	.9130	.5163-02	.8071-02	.9270	5.600	563.6
126	78.000	.37000	808.00	.1182	.9440-01	.1454	.9130	.4226-02	.6508-02	.7790	4.732	558.7
126	78.000	.37500	809.00	.9440-01	.7560-01	.1156	.9130	.3384-02	.5172-02	.6330	3.849	556.1
126	78.000	.38000	810.00	.7750-01	.6230-01	.9440-01	.9130	.2790-02	.4226-02	.5310	3.251	552.9
126	78.000	.39000	811.00	.5460-01	.4410-01	.6630-01	.9130	.1973-02	.2965-02	.3810	2.344	550.0
126	78.000	.40000	812.00	.3910-01	.3170-01	.4730-01	.9130	.1419-02	.2119-02	.2780	1.712	547.3
114	90.000	.40000-01	985.00	.5156	.4041	.5001	.9556	.1810-01	.2240-01	3.103	19.95	570.3
114	90.000	.50000-01	986.00	.4451	.3508	.4402	.9521	.1571-01	.1971-01	2.751	17.62	566.6
114	90.000	.60000-01	987.00	.3628	.2806	.3657	.9486	.1257-01	.1638-01	2.059	13.34	578.0
114	90.000	.70000-01	988.00	.3270	.2540	.3360	.9453	.1138-01	.1505-01	1.890	12.52	575.6
114	90.000	.80000-01	989.00	.2811	.2195	.2940	.9422	.9831-02	.1316-01	1.664	11.64	572.4
114	90.000	.10000+00	990.00	.2256	.1788	.2431	.9363	.8008-02	.1089-01	1.432	9.265	563.0
114	90.000	.15000	991.00	.9180-01	.7320-01	.1058	.9240	.3280-02	.4737-02	.6010	4.388	558.5
126	90.000	.20000	813.00	.2910-01	.2370-01	.3500-01	.9133	.1062-02	.1565-02	.2130	1.554	542.3
126	90.000	.24000	814.00	.2330-01	.1900-01	.2810-01	.9130	.8508-03	.1256-02	.1700	1.382	542.7
126	90.000	.27000	816.00	.1560-01	.1270-01	.1870-01	.9130	.5683-03	.8387-03	.1140	.8120	542.5
126	90.000	.29000	817.00	.1165	.9260-01	.1440	.9130	.4144-02	.6443-02	.7510	4.630	561.9
126	90.000	.30000	818.00	.2358	.1795	.3070	.9130	.8035-02	.1374-01	1.251	7.492	587.4
126	90.000	.31000	819.00	.2747	.2101	.3556	.9130	.9406-02	.1592-01	1.486	8.839	585.1
126	90.000	.32000	820.00	.2639	.2024	.3405	.9130	.9059-02	.1524-01	1.444	8.571	583.7
126	90.000	.32500	821.00	.2758	.2114	.3559	.9130	.9464-02	.1593-01	1.507	8.919	583.8
126	90.000	.33000	822.00	.2824	.2159	.3660	.9130	.9661-02	.1638-01	1.523	9.030	585.5
126	90.000	.33500	823.00	.3120	.2362	.4092	.9130	.1057-01	.1831-01	1.617	9.592	590.1
126	90.000	.34000	824.00	.4000	.2988	.5337	.9130	.1338-01	.2389-01	1.965	11.56	596.2
126	90.000	.34500	825.00	.4898	.3585	.6719	.9130	.1604-01	.3007-01	2.224	13.06	604.5
126	90.000	.35000	826.00	.5286	.3677	.7816	.9130	.1646-01	.3498-01	2.009	11.71	621.0
126	90.000	.36000	828.00	.3812	.2821	.5151	.9130	.1262-01	.2305-01	1.804	10.59	600.2

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F23)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
126	90.000	.36500	829.00	.2200	.1726	.2763	.9130	.7724-02	.1237-01	1.331	7.947	570.8
126	90.000	.37000	830.00	.1252	.1006	.1530	.9130	.4501-02	.6849-02	.8480	5.123	554.6
126	90.000	.37500	831.00	.8760-01	.7090-01	.1061	.9130	.3173-02	.4747-02	.6180	3.767	548.1
126	90.000	.38000	832.00	.6280-01	.5100-01	.7570-01	.9130	.2284-02	.3389-02	.4530	2.761	544.9
126	90.000	.39000	833.00	.6560-01	.5310-01	.7940-01	.9130	.2378-02	.3554-02	.4640	2.860	547.8
126	90.000	.40000	834.00	.6140-01	.4970-01	.7430-01	.9130	.2225-02	.3326-02	.4340	2.684	547.8
126	90.000	.50000	835.00	.1890-01	.1530-01	.2280-01	.9130	.6857-03	.1019-02	.1360	.8580	545.3
126	90.000	.60000	836.00	.2990-01	.2420-01	.3620-01	.9130	.1083-02	.1620-02	.2110	1.407	548.0
126	90.000	.70000	837.00	.4380-01	.3540-01	.5320-01	.9130	.1585-02	.2381-02	.3060	2.153	549.8
126	90.000	.80000	838.00	.6210-01	.5030-01	.7530-01	.9130	.2251-02	.3369-02	.4380	2.721	548.3
126	90.000	.90000	839.00	.3250-01	.2620-01	.3950-01	.9130	.1172-02	.1768-02	.2250	1.433	551.4
126	112.50	.23000	840.00	.2440-01	.1990-01	.2930-01	.9133	.8891-03	.1310-02	.1730	1.440	542.6
126	112.50	.25000	841.00	.1090-01	.8900-02	.1310-01	.9130	.3983-03	.5861-03	.8000-01	.6250	541.3
126	112.50	.30000	843.00	.6460-01	.5240-01	.7830-01	.9130	.2343-02	.3502-02	.4580	2.721	547.8
126	112.50	.33000	844.00	.1241	.9960-01	.1519	.9130	.4456-02	.6796-02	.8370	5.022	555.3
126	112.50	.35000	845.00	.1738	.1378	.2155	.9130	.6169-02	.9647-02	1.106	6.721	563.8
126	112.50	.37000	846.00	.1492	.1194	.1830	.9130	.5346-02	.8192-02	.9950	6.098	557.0
126	112.50	.40000	847.00	.5040-01	.4110-01	.6060-01	.9130	.1839-02	.2711-02	.3700	2.310	542.0
126	112.50	.45000	848.00	.2940-01	.2400-01	.3520-01	.9130	.1074-02	.1575-02	.2190	1.378	539.7
126	112.50	.50000	849.00	.2600-01	.2120-01	.3120-01	.9130	.9488-03	.1398-02	.1910	1.231	541.9
126	112.50	.55000	850.00	.1560-01	.1270-01	.1870-01	.9130	.5677-03	.8368-03	.1140	.7640	542.0
126	112.50	.60000	851.00	.2000-01	.1630-01	.2400-01	.9130	.7300-03	.1075-02	.1470	.9880	541.7
126	112.50	.65000	852.00	.3310-01	.2700-01	.3990-01	.9130	.1207-02	.1785-02	.2410	1.640	543.6
126	112.50	.70000	853.00	.4990-01	.4040-01	.6030-01	.9130	.1810-02	.2700-02	.3550	2.488	547.1
126	112.50	.75000	854.00	.3960-01	.3220-01	.4780-01	.9130	.1439-02	.2140-02	.2840	1.845	545.6
126	112.50	.80000	855.00	.6030-01	.4900-01	.7280-01	.9130	.2194-02	.3259-02	.4340	2.826	545.2
126	112.50	.90000	856.00	.3430-01	.2760-01	.4170-01	.9130	.1236-02	.1868-02	.2360	1.528	552.0
126	125.40	.84000	857.00	.4890-01	.3960-01	.5920-01	.9130	.1773-02	.2652-02	.3460	2.137	548.0
126	125.40	.85000	858.00	.4670-01	.3780-01	.5660-01	.9130	.1693-02	.2532-02	.3310	2.054	547.8
126	125.40	.86000	859.00	.3850-01	.3120-01	.4650-01	.9130	.1396-02	.2082-02	.2740	1.718	546.8
126	125.40	.87000	860.00	.3860-01	.3130-01	.4660-01	.9130	.1400-02	.2086-02	.2750	1.731	546.4
126	125.40	.88000	861.00	.4050-01	.3280-01	.4900-01	.9130	.1468-02	.2192-02	.2870	1.805	547.3
126	125.40	.89000	862.00	.4420-01	.3570-01	.5360-01	.9130	.1598-02	.2398-02	.3100	1.955	549.3
126	125.40	.90000	863.00	.5150-01	.4170-01	.6250-01	.9130	.1866-02	.2797-02	.3620	2.300	548.9
126	125.40	.91000	864.00	.4500-01	.3640-01	.5450-01	.9130	.1627-02	.2441-02	.3160	2.292	549.1
126	125.40	.92600	865.00	.1254	.9990-01	.1547	.9130	.4471-02	.6923-02	.8160	5.873	560.6
126	129.30	.80000	866.00	.3570-01	.2900-01	.4300-01	.9130	.1298-02	.1925-02	.2580	1.620	544.6
126	129.30	.81000	867.00	.3140-01	.2560-01	.3780-01	.9130	.1144-02	.1694-02	.2280	1.426	543.9
126	129.30	.82000	868.00	.3570-01	.2910-01	.4300-01	.9130	.1301-02	.1927-02	.2590	1.623	543.9
126	129.30	.83000	869.00	.5360-01	.4350-01	.6480-01	.9130	.1945-02	.2901-02	.3810	2.390	547.0
126	135.00	.40000-01	870.00	.5098	.3388	.4944	.9556	.1785-01	.2213-01	3.045	19.33	572.5
126	135.00	.50000-01	871.00	.4562	.3599	.4512	.9521	.1611-01	.2019-01	2.838	17.96	566.9
126	135.00	.60000-01	872.00	.3483	.2700	.3510	.9486	.1208-01	.1571-01	1.997	13.06	577.8

(RV7F23)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
126	135.00	.70000-01	873.00	.3172	.2471	.3258	.9453	.1106-01	.1458-01	1.860	12.48	574.9
126	135.00	.10000+00	875.00	.2258	.1797	.2429	.9363	.8044-02	.1087-01	1.465	9.545	561.0
126	135.00	.15000	876.00	.1224	.9800-01	.1406	.9240	.4384-02	.6294-02	.8160	5.941	557.0
126	135.00	.20000	877.00	.5270-01	.4280-01	.6260-01	.9158	.1915-02	.2804-02	.3780	2.551	545.6
126	135.00	.35000	878.00	.5570-01	.4530-01	.6710-01	.9130	.2026-02	.3002-02	.4030	2.507	544.2
126	135.00	.40000	879.00	.5500-01	.4470-01	.6640-01	.9130	.2002-02	.2970-02	.3970	2.520	544.7
126	135.00	.50000	880.00	.5980-01	.4840-01	.7240-01	.9130	.2167-02	.3239-02	.4230	2.904	547.8
126	135.00	.55000	881.00	.7050-01	.5690-01	.8550-01	.9130	.2548-02	.3828-02	.4930	3.276	549.8
126	135.00	.60000	882.00	.7070-01	.5710-01	.8570-01	.9130	.2557-02	.3836-02	.4960	3.329	549.2
126	135.00	.65000	883.00	.6320-01	.5110-01	.7660-01	.9130	.2288-02	.3427-02	.4450	3.034	548.6
126	135.00	.70000	884.00	.5950-01	.4820-01	.7200-01	.9130	.2155-02	.3221-02	.4210	2.991	547.8
126	135.00	.75000	885.00	.5060-01	.4110-01	.6110-01	.9130	.1840-02	.2734-02	.3640	2.293	545.4
126	135.00	.80000	886.00	.3780-01	.3080-01	.4550-01	.9130	.1378-02	.2035-02	.2760	1.736	542.9
114	135.00	.84000	887.00	.8480-01	.6850-01	.1027	.9130	.3066-02	.4596-02	.5960	3.742	549.8
114	135.00	.85000	888.00	.8950-01	.7190-01	.1093	.9130	.3221-02	.4897-02	.6070	3.837	553.2
114	135.00	.86000	889.00	.5920-01	.4780-01	.7180-01	.9130	.2142-02	.3217-02	.4130	2.610	548.7
114	135.00	.87000	890.00	.5360-01	.4340-01	.6500-01	.9130	.1943-02	.2912-02	.3770	2.395	547.7
114	135.00	.88000	891.00	.5610-01	.4530-01	.6810-01	.9130	.2031-02	.3049-02	.3920	2.505	548.6
114	135.00	.89000	892.00	.6240-01	.5040-01	.7580-01	.9130	.2256-02	.3396-02	.4340	2.818	549.5
114	135.00	.90000	893.00	.6280-01	.5060-01	.7630-01	.9130	.2267-02	.3416-02	.4350	2.859	549.9
114	135.00	.91000	894.00	.3360-01	.2710-01	.4080-01	.9130	.1212-02	.1827-02	.2320	1.689	550.2
114	135.00	.92600	895.00	.7440-01	.5930-01	.9170-01	.9130	.2658-02	.4105-02	.4860	3.516	558.7
114	135.00	.95000	896.00	.5570-01	.4500-01	.6750-01	.9130	.2017-02	.3023-02	.3910	2.824	547.8
114	142.30	.42000	897.00	.8260-01	.6650-01	.1008	.9130	.2976-02	.4512-02	.5640	3.617	552.2
114	142.30	.43500	898.00	.1298	.1041	.1590	.9130	.4662-02	.7119-02	.8720	5.424	554.8
114	142.30	.45000	899.00	.1037	.8340-01	.1265	.9130	.3737-02	.5664-02	.7080	4.623	552.1
114	142.30	.50000	900.00	.1066	.8540-01	.1306	.9130	.3824-02	.5849-02	.7130	4.728	555.3
114	142.30	.60000	901.00	.7400-01	.5980-01	.8980-01	.9130	.2679-02	.4021-02	.5180	3.437	548.4
114	142.30	.70000	902.00	.7860-01	.6330-01	.9570-01	.9130	.2835-02	.4287-02	.5400	3.679	551.2
114	142.30	.80000	903.00	.6430-01	.5210-01	.7770-01	.9130	.2334-02	.3478-02	.4580	2.913	545.5
114	142.30	.87000	904.00	.4880-01	.3940-01	.5930-01	.9130	.1763-02	.2657-02	.3380	2.134	549.9
114	154.98	.42000	905.00	.1059	.8500-01	.1294	.9130	.3807-02	.5794-02	.7160	4.603	553.6
114	154.98	.43500	906.00	.8550-01	.6880-01	.1043	.9130	.3083-02	.4670-02	.5860	3.789	551.8
114	154.98	.45000	907.00	.8780-01	.7070-01	.1068	.9130	.3167-02	.4783-02	.6050	3.936	550.8
114	154.98	.50000	908.00	.9940-01	.7970-01	.1217	.9130	.3571-02	.5450-02	.6680	4.762	554.6
114	154.98	.93500	913.00	.1434	.1116	.1815	.9130	.5000-02	.8129-02	.8380	6.011	574.1
114	154.98	.94500	914.00	.1467	.1149	.1844	.9130	.5144-02	.8259-02	.8800	6.261	570.7
114	157.50	.80000-01	919.00	.2813	.2208	.2938	.9422	.9888-02	.1316-01	1.706	11.51	569.3
114	157.50	.20000	922.00	.5730-01	.4640-01	.6820-01	.9158	.2079-02	.3053-02	.4070	2.713	545.9
114	157.50	.42000	923.00	.1023	.8220-01	.1250	.9130	.3680-02	.5596-02	.6940	4.510	553.3
114	157.50	.43500	924.00	.1166	.9320-01	.1431	.9130	.4176-02	.6410-02	.7730	5.035	556.6
114	157.50	.45000	925.00	.1134	.9080-01	.1394	.9130	.4057-02	.6244-02	.7470	4.907	557.5
114	157.50	.85000	926.00	.3660-01	.2960-01	.4450-01	.9130	.1326-02	.1991-02	.2560	1.656	548.6

BEST AVAILABLE COPY
OF POOR QUALITY

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
114	157.50	.86000	927.00	.3060-01	.2470-01	.3710-01	.9130	.1107-02	.1660-02	.2150	1.391	547.9
114	157.50	.87000	928.00	.3410-01	.2750-01	.4150-01	.9130	.1230-02	.1857-02	.2350	1.525	550.7
114	157.50	.88000	929.00	.8150-01	.6540-01	.9970-01	.9130	.2929-02	.4466-02	.5490	3.580	554.2
114	157.50	.89000	930.00	.1129	.9010-01	.1390	.9130	.4037-02	.6223-02	.7420	4.853	558.1
114	157.50	.90000	931.00	.1130	.9000-01	.1395	.9130	.4029-02	.6249-02	.7320	4.902	560.1
114	157.50	.91000	932.00	.5830-01	.4620-01	.7230-01	.9130	.2070-02	.3239-02	.3700	2.686	563.0
114	157.50	.92500	933.00	.6550-01	.5120-01	.8280-01	.9130	.2295-02	.3706-02	.3890	2.801	572.3
114	163.12	.41500	934.00	.8540-01	.6870-01	.1041	.9130	.3078-02	.4663-02	.5850	3.782	551.9
114	163.12	.42000	935.00	.9580-01	.7670-01	.1174	.9130	.3437-02	.5259-02	.6400	4.173	555.4
114	163.12	.43000	937.00	.1465	.1157	.1824	.9130	.5181-02	.8170-02	.9140	5.942	565.4
114	163.12	.44000	938.00	.1963	.1535	.2475	.9130	.6973-02	.1108-01	1.168	7.544	571.9
114	163.12	.44500	939.00	.1785	.1399	.2242	.9130	.6354-02	.1004-01	1.074	7.050	570.2
114	163.12	.45000	940.00	.1696	.1326	.2119	.9130	.5983-02	.9491-02	1.045	6.867	557.1
114	163.12	.50000	941.00	.9850-01	.7860-01	.1212	.9130	.3522-02	.5428-02	.5470	4.365	558.0
114	163.12	.60000	942.00	.1022	.8210-01	.1248	.9130	.3677-02	.5587-02	.6940	4.463	553.0
114	163.12	.70000	943.00	.6240-01	.5040-01	.7570-01	.9130	.2258-02	.3390-02	.4370	2.996	548.4
114	163.12	.80000	944.00	.6040-01	.4890-01	.7310-01	.9130	.2189-02	.3274-02	.4260	2.781	547.0
114	168.00	.35000	945.00	.3820-01	.3100-01	.4600-01	.9130	.1389-02	.2062-02	.2750	1.743	544.0
114	168.00	.36000	946.00	.4030-01	.3270-01	.4860-01	.9130	.1465-02	.2175-02	.2900	1.845	544.0
114	168.00	.37000	947.00	.5000-01	.4050-01	.7270-01	.9130	.2174-02	.3257-02	.4220	2.887	547.7
114	168.00	.37500	948.00	.8070-01	.6500-01	.9830-01	.9130	.2912-02	.4401-02	.5560	3.534	551.0
114	168.00	.38500	950.00	.6920-01	.5600-01	.8380-01	.9130	.2510-02	.3754-02	.4690	3.151	547.0
114	168.00	.39000	951.00	.7010-01	.5560-01	.8520-01	.9130	.2537-02	.3814-02	.4690	3.168	549.0
114	168.00	.39500	952.00	.6140-01	.4960-01	.7460-01	.9130	.2221-02	.3340-02	.4280	2.732	549.1
114	168.00	.40000	953.00	.6510-01	.5250-01	.7900-01	.9130	.2353-02	.3539-02	.4530	2.943	549.2
114	168.00	.40500	954.00	.6700-01	.5400-01	.8160-01	.9130	.2418-02	.3656-02	.4610	2.998	551.2
114	168.00	.41000	955.00	.7580-01	.6090-01	.9270-01	.9130	.2726-02	.4151-02	.5130	3.333	553.7
114	168.00	.41500	956.00	.9110-01	.7290-01	.1118	.9130	.3266-02	.5006-02	.6060	3.949	556.1
114	168.00	.42000	957.00	.1077	.8560-01	.1327	.9130	.3844-02	.5943-02	.7030	4.580	559.1
114	168.00	.42500	958.00	.1165	.9280-01	.1436	.9130	.4157-02	.6432-02	.7590	4.947	559.3
114	168.00	.43000	959.00	.1743	.1357	.2208	.9130	.6078-02	.9896-02	1.018	6.570	574.2
114	168.00	.44000	960.00	.2018	.1621	.2625	.9130	.7259-02	.1176-01	1.224	7.930	573.1
114	170.00	.44500	961.00	.1978	.1559	.2470	.9130	.6930-02	.1106-01	1.220	7.927	566.9
114	168.00	.45000	962.00	.1779	.1405	.2216	.9130	.6083-02	.9883-02	1.110	7.258	565.4
114	169.00	.45500	963.00	.1679	.1324	.2098	.9130	.5828-02	.9388-02	1.038	6.785	566.6
114	169.00	.46000	964.00	.1849	.1454	.2314	.9130	.6510-02	.1036-01	1.130	7.424	568.2
114	168.00	.47000	965.00	.1687	.1383	.1962	.9130	.5299-02	.8659-02	.9380	6.131	564.7
114	168.00	.48000	966.00	.1279	.1017	.1581	.9130	.4554-02	.7079-02	.8240	5.498	560.8
114	169.00	.49000	967.00	.0980-01	.0778-01	.1150	.9130	.3389-02	.5148-02	.6400	4.298	562.9
114	169.00	.85000	968.00	.4090-01	.3340-01	.5210-01	.9130	.1515-02	.2269-02	.2890	1.572	560.9
114	168.00	.86000	969.00	.4370-01	.3510-01	.5340-01	.9130	.1573-02	.2389-02	.2970	1.928	552.6
114	168.00	.87000	970.00	.4210-01	.3380-01	.5140-01	.9130	.1513-02	.2304-02	.2850	1.851	553.7
114	168.00	.88000	971.00	.9030-01	.7890-01	.1214	.9130	.3534-02	.5436-02	.6520	4.244	557.3

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F23)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
114	168.00	.89000	972.00	.1778	.1410	.2204	.9130	.6314-02	.9870-02	1.131	7.452	562.6
114	168.00	.90000	973.00	.1270	.1006	.1576	.9130	.4507-02	.7058-02	.8050	5.430	563.2
114	168.00	.91000	974.00	.5270-01	.4160-01	.6560-01	.9130	.1864-02	.2937-02	.3290	2.380	565.1
114	168.00	.92600	975.00	.5530-01	.4270-01	.7060-01	.9130	.1913-02	.3162-02	.3130	2.230	578.4
114	168.00	.95000	976.00	.4920-01	.3990-01	.5960-01	.9130	.1786-02	.2670-02	.3480	2.505	546.9
114	180.00	.20000-01	982.00	.1570	.1271	.1494	.9608	.5691-02	.7691-02	1.106	7.691	547.3
114	180.00	.25000-01	983.00	.3150	.2517	.3016	.9588	.1127-01	.1351-01	2.078	14.28	557.3
114	180.00	.30000-01	984.00	.6138	.4771	.5897	.9571	.2137-01	.2641-01	3.558	24.09	575.2
124	180.00	.40000-01	600.00	.5052	.3922	.4894	.9556	.1755-01	.2190-01	2.906	18.42	575.0
124	180.00	.50000-01	601.00	.4396	.3443	.4347	.9521	.1541-01	.1945-01	2.633	16.79	569.6
124	180.00	.60000-01	602.00	.3566	.2741	.3595	.9486	.1227-01	.1609-01	1.963	12.86	580.5
124	180.00	.70000-01	603.00	.3213	.2479	.3305	.9453	.1109-01	.1479-01	1.797	12.07	578.5
124	180.00	.80000-01	604.00	.2995	.2329	.3136	.9422	.1042-01	.1403-01	1.734	11.12	574.1
124	180.00	.10000+00	605.00	.2009	.1582	.2170	.9363	.7079-02	.9711-02	1.233	8.760	566.4
124	180.00	.15000	606.00	.1120	.8900-01	.1294	.9240	.3981-02	.5791-02	.7170	5.176	560.5
124	180.00	.20000	607.00	.5360-01	.4320-01	.6410-01	.9158	.1934-02	.2867-02	.3710	2.417	548.8
124	180.00	.21000	608.00	.4260-01	.3450-01	.5120-01	.9147	.1542-02	.2289-02	.2980	2.061	547.0
124	180.00	.22000	609.00	.3310-01	.2670-01	.3990-01	.9139	.1197-02	.1786-02	.2310	1.722	547.1
124	180.00	.30000	610.00	.2510-01	.2030-01	.3050-01	.9130	.9070-03	.1363-02	.1750	1.195	548.0
124	180.00	.35000	611.00	.3310-01	.2670-01	.4010-01	.9130	.1196-02	.1793-02	.2320	1.543	546.9
124	180.00	.36000	612.00	.3090-01	.3220-01	.4840-01	.9130	.1442-02	.2165-02	.2780	1.869	547.7
124	180.00	.37000	613.00	.8580-01	.5200-01	.8040-01	.9130	.2368-02	.3599-02	.4460	2.989	552.2
124	180.00	.37500	614.00	.7750-01	.6210-01	.9500-01	.9130	.2778-02	.4252-02	.5170	3.458	554.5
124	180.00	.38000	615.00	.7610-01	.6100-01	.9320-01	.9130	.2729-02	.4171-02	.5080	3.405	554.2
124	180.00	.38500	616.00	.6940-01	.5570-01	.8480-01	.9130	.2491-02	.3796-02	.4670	3.129	553.0
124	180.00	.39000	617.00	.5780-01	.4650-01	.7060-01	.9130	.2080-02	.3158-02	.3920	2.623	551.9
124	180.00	.39500	618.00	.5710-01	.4590-01	.6980-01	.9130	.2053-02	.3123-02	.3860	2.593	552.6
124	180.00	.40000	619.00	.5630-01	.4520-01	.7550-01	.9130	.2206-02	.3377-02	.4100	2.736	554.7
124	180.00	.40500	620.00	.7200-01	.5750-01	.8870-01	.9130	.2571-02	.3970-02	.4700	3.140	557.8
124	180.00	.41000	621.00	.9470-01	.7510-01	.1174	.9130	.3362-02	.5253-02	.6020	4.013	561.6
124	180.00	.41500	622.00	.1167	.9210-01	.1454	.9130	.4120-02	.6506-02	.7240	4.807	564.8
124	180.00	.42500	624.00	.1653	.1284	.2091	.9130	.5746-02	.9357-02	.9590	6.342	573.6
124	180.00	.43000	625.00	.2011	.1561	.2576	.9130	.6941-02	.1153-01	1.124	7.437	579.6
124	180.00	.44000	626.00	.2619	.1981	.3440	.9130	.8863-02	.1539-01	1.346	8.660	588.6
124	180.00	.44500	627.00	.2793	.2104	.3686	.9130	.9413-02	.1649-01	1.413	9.376	590.4
124	180.00	.45000	628.00	.2566	.1952	.3346	.9130	.8733-02	.1497-01	1.350	8.980	585.9
124	180.00	.45500	629.00	.2009	.1553	.2565	.9130	.6951-02	.1148-01	1.135	7.702	577.2
124	180.00	.46000	630.00	.1665	.1306	.2088	.9130	.5845-02	.9344-02	1.006	6.687	568.5
124	180.00	.47000	631.00	.9250-01	.7370-01	.1139	.9130	.3299-02	.5098-02	.6030	4.027	557.9
124	180.00	.48000	632.00	.4130-01	.3310-01	.5060-01	.9130	.1482-02	.2266-02	.2760	1.861	554.2
124	180.00	.49000	633.00	.5210-01	.4160-01	.6400-01	.9130	.1861-02	.2865-02	.3420	2.324	556.7
124	180.00	.50000	634.00	.1064	.8380-01	.1329	.9130	.3749-02	.5947-02	.6530	4.526	566.3
124	180.00	.55000	635.00	.1033	.8160-01	.1286	.9130	.3651-02	.5756-02	.6430	4.234	564.4

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
124	180.00	.60000	636.00	.1196	.9490-01	.1480	.9130	.4248-02	.6622-02	.7640	4.889	560.8
124	180.00	.65000	637.00	.1102	.8770-01	.1361	.9130	.3924-02	.6088-02	.7110	4.569	559.3
124	180.00	.70000	638.00	.7920-01	.6320-01	.9750-01	.9130	.2826-02	.4361-02	.5170	3.522	557.5
124	180.00	.75000	639.00	.6600-01	.5290-01	.8080-01	.9130	.2369-02	.3617-02	.4420	2.841	553.9
124	180.00	.80000	640.00	.5970-01	.4790-01	.7290-01	.9130	.2145-02	.3250-02	.4040	2.524	552.2
124	180.00	.85000	641.00	.5750-01	.4600-01	.7070-01	.9130	.2057-02	.3162-02	.3790	2.384	556.2
124	180.00	.86000	642.00	.5170-01	.4120-01	.6370-01	.9130	.1845-02	.2850-02	.3370	2.149	557.8
124	180.00	.87000	643.00	.3930-01	.3120-01	.4860-01	.9130	.1397-02	.2173-02	.2520	1.615	560.1
124	180.00	.88000	644.00	.7950-01	.6300-01	.9860-01	.9130	.2817-02	.4413-02	.5020	3.238	562.4
124	180.00	.89000	645.00	.1272	.1003	.1586	.9130	.4488-02	.7096-02	.7870	5.131	565.2
124	180.00	.90000	646.00	.1011	.7990-01	.1260	.9130	.3573-02	.5638-02	.6280	4.186	564.6
124	180.00	.92600	648.00	.4670-01	.3530-01	.6120-01	.9130	.1580-02	.2737-02	.2410	1.721	588.1
124	180.00	.95000	649.00	.3050-01	.2460-01	.3700-01	.9130	.1103-02	.1656-02	.2130	1.536	547.6
124	191.25	.35000	650.00	.3520-01	.2850-01	.4270-01	.9130	.1273-02	.1910-02	.2460	1.654	547.2
124	191.25	.36000	651.00	.4500-01	.3630-01	.5470-01	.9130	.1622-02	.2445-02	.3110	2.091	549.1
124	191.25	.37000	652.00	.7800-01	.6250-01	.9540-01	.9130	.2797-02	.4268-02	.5230	3.503	553.6
124	191.25	.37500	653.00	.7870-01	.6300-01	.9650-01	.9130	.2820-02	.4317-02	.5240	3.517	554.8
124	191.25	.38000	654.00	.7730-01	.6200-01	.9460-01	.9130	.2774-02	.4234-02	.5180	3.483	553.7
124	191.25	.38500	655.00	.7450-01	.5970-01	.9120-01	.9130	.2673-02	.4079-02	.4990	3.356	553.7
124	191.25	.39000	656.00	.7020-01	.5630-01	.8600-01	.9130	.2520-02	.3847-02	.4710	3.163	553.7
124	191.25	.39500	657.00	.7350-01	.5900-01	.9000-01	.9130	.2638-02	.4027-02	.4930	3.310	553.8
124	191.25	.40000	658.00	.7510-01	.6010-01	.9210-01	.9130	.2688-02	.4120-02	.4980	3.355	555.2
124	191.25	.40500	659.00	.8360-01	.6680-01	.1027	.9130	.2987-02	.4594-02	.5500	3.703	556.3
124	191.25	.41000	660.00	.8940-01	.7120-01	.1102	.9130	.3187-02	.4929-02	.5810	3.892	558.3
124	191.25	.41500	661.00	.9350-01	.7450-01	.1153	.9130	.3332-02	.5160-02	.6060	4.050	558.6
124	191.25	.42000	662.00	.1224	.9650-01	.1528	.9130	.4316-02	.6839-02	.7540	5.034	565.9
124	191.25	.42500	663.00	.1577	.1235	.1984	.9130	.5528-02	.8875-02	.9440	6.313	569.7
124	191.25	.43000	664.00	.1989	.1530	.2556	.9130	.6845-02	.1144-01	1.099	7.374	580.0
124	191.25	.44000	665.00	.2223	.1712	.2855	.9130	.7659-02	.1277-01	1.232	8.221	579.7
124	191.25	.45000	666.00	.1826	.1427	.2302	.9130	.6384-02	.1030-01	1.082	7.249	571.1
124	191.25	.45500	667.00	.1721	.1344	.2171	.9130	.6014-02	.9715-02	1.017	6.812	571.4
124	191.25	.46000	668.00	.1662	.1296	.2101	.9130	.5799-02	.9401-02	.9750	6.548	572.4
124	191.25	.47000	669.00	.1364	.1071	.1731	.9130	.4793-02	.7656-02	.8260	5.575	568.2
124	191.25	.48000	670.00	.1230	.9690-01	.1537	.9130	.4334-02	.6879-02	.7550	5.102	566.4
124	191.25	.49000	671.00	.1226	.9650-01	.1533	.9130	.4317-02	.6860-02	.7510	5.055	566.7
124	191.25	.50000	672.00	.1406	.1103	.1764	.9130	.4934-02	.7895-02	.8480	5.830	568.7
124	191.25	.60000	673.00	.7600-01	.6080-01	.9330-01	.9130	.2722-02	.4174-02	.5040	3.219	555.3
124	191.25	.70000	674.00	.1026	.8120-01	.1276	.9130	.3632-02	.5709-02	.6430	4.341	563.4
124	191.25	.85000	676.00	.6200-01	.4960-01	.7610-01	.9130	.2220-02	.3407-02	.4110	2.583	555.6
124	191.25	.86000	677.00	.4260-01	.3409-01	.5240-01	.9130	.1523-02	.2346-02	.2800	1.781	556.8
124	191.25	.87000	678.00	.3490-01	.2780-01	.4300-01	.9130	.1243-02	.1924-02	.2260	1.450	558.6
124	191.25	.88000	679.00	.5520-01	.4380-01	.6840-01	.9130	.1960-02	.3060-02	.3520	2.277	561.2
124	191.25	.89000	680.00	.8130-01	.6420-01	.1013	.9130	.2875-02	.4533-02	.5060	3.323	564.4

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
124	191.25	.90000	681.00	.7480-01	.5880-01	.9350-01	.9130	.2631-02	.4186-02	.4560	3.046	567.1
124	191.25	.91000	682.00	.3340-01	.2620-01	.4190-01	.9130	.1173-02	.1876-02	.2020	1.455	568.6
124	191.25	.92600	683.00	.5720-01	.4360-01	.7440-01	.9130	.1952-02	.3327-02	.3040	2.167	584.6
124	191.25	.95000	684.00	.3730-01	.3010-01	.4530-01	.9130	.1347-02	.2027-02	.2590	1.868	548.4
124	197.00	.33000	685.00	.2810-01	.2270-01	.3400-01	.9130	.1017-02	.1520-02	.1980	1.333	545.7
124	197.00	.34000	686.00	.2970-01	.2400-01	.3600-01	.9130	.1075-02	.1610-02	.2090	1.403	546.4
124	197.00	.35000	687.00	.3270-01	.2640-01	.3960-01	.9130	.1182-02	.1773-02	.2290	1.536	547.1
124	197.00	.36000	688.00	.5740-01	.4620-01	.7000-01	.9130	.2067-02	.3133-02	.3910	2.624	551.2
124	197.00	.37000	689.00	.7450-01	.5960-01	.9130-01	.9130	.2665-02	.4087-02	.4940	3.303	555.3
124	197.00	.37500	690.00	.8680-01	.6910-01	.1069	.9130	.3094-02	.4783-02	.5640	3.782	558.2
124	197.00	.50000	691.00	.1766	.1351	.2286	.9130	.6045-02	.1023-01	.9530	6.288	582.9
124	197.00	.60000	692.00	.7470-01	.5970-01	.9170-01	.9130	.2672-02	.4101-02	.4940	3.172	555.7
124	197.00	.70000	693.00	.1428	.1107	.1819	.9130	.4951-02	.8141-02	.8140	5.442	576.1
124	197.00	.80000	694.00	.4270-01	.3430-01	.5220-01	.9130	.1535-02	.2335-02	.2890	1.808	552.5
124	197.00	.87000	695.00	.4640-01	.3690-01	.5730-01	.9130	.1650-02	.2562-02	.2990	1.892	559.5
124	197.00	.92600	696.00	.8720-01	.6650-01	.1134	.9130	.2976-02	.5073-02	.4640	3.329	584.7
124	209.80	.15000-0.	697.00	.1310	.1052	.1600	.9130	.4708-02	.7160-02	.8860	6.065	552.4
125	209.80	.30000-01	698.00	.5402	.4225	.5196	.9571	.1892-01	.2327-01	3.224	21.66	572.2
125	209.80	.50000-01	699.00	.4210	.3338	.4164	.9521	.1495-01	.1865-01	2.679	16.89	563.3
125	209.80	.70000-01	700.00	.3495	.2699	.3593	.9454	.1209-01	.1609-01	1.971	13.11	579.5
125	209.80	.10000+00	701.00	.2550	.2011	.2753	.9363	.9006-02	.1233-01	1.581	9.979	567.0
125	209.80	.15000	702.00	.1135	.9070-01	.1306	.9240	.4060-02	.5849-02	.7490	5.327	558.1
125	209.80	.20000	703.00	.6040-01	.4890-01	.7190-01	.9158	.2192-02	.3219-02	.4290	2.860	546.7
125	209.80	.30000	704.00	.4130-01	.3340-01	.5000-01	.9130	.1496-02	.2239-02	.2910	2.064	547.8
125	209.80	.35000	705.00	.5900-01	.4770-01	.7160-01	.9130	.2138-02	.3207-02	.4130	2.824	549.2
125	209.80	.37500	706.00	.9820-01	.7860-01	.1204	.9130	.3520-02	.5392-02	.6550	4.474	556.5
125	209.80	.50000	707.00	.1168	.9270-01	.1445	.9130	.4151-02	.6473-02	.7470	5.075	562.5
125	209.80	.60000	708.00	.8680-01	.6990-01	.1057	.9130	.3131-02	.4734-02	.5980	3.799	551.8
125	209.80	.70000	709.00	.9140-01	.7340-01	.1117	.9130	.3288-02	.5004-02	.6190	3.934	554.2
125	209.80	.80000	710.00	.3590-01	.2920-01	.4320-01	.9130	.1310-02	.1935-02	.2620	1.636	542.6
125	209.80	.87000	711.00	.4230-01	.3430-01	.5130-01	.9130	.1535-02	.2296-02	.2990	1.891	547.6
125	209.80	.92600	712.00	.4470-01	.3510-01	.5600-01	.9130	.1571-02	.2507-02	.2720	1.955	569.5
125	217.70	.15000-01	713.00	.1463	.1188	.1764	.9130	.5322-02	.7902-02	1.053	7.260	544.7
125	217.70	.30000-01	714.00	.5177	.4063	.4992	.9571	.1820-01	.2231-01	3.141	21.12	569.9
125	217.70	.50000-01	715.00	.3992	.3176	.3949	.9521	.1422-01	.1769-01	2.583	16.73	560.9
125	217.70	.70000-01	716.00	.3397	.2616	.3494	.9454	.1172-01	.1565-01	1.892	12.69	581.1
125	217.70	.10000+00	717.00	.1997	.1593	.2147	.9363	.7134-02	.9613-02	1.309	8.436	559.1
125	217.70	.15000	718.00	.1136	.9050-01	.1309	.9240	.4053-02	.5864-02	.7410	5.385	559.8
125	217.70	.20000	719.00	.5970-01	.4840-01	.7090-01	.9158	.2168-02	.3176-02	.4270	2.883	545.4
125	217.70	.30000	720.00	.4530-01	.3660-01	.5500-01	.9130	.1641-02	.2462-02	.3180	2.272	548.8
125	217.70	.35000	721.00	.5610-01	.4540-01	.6780-01	.9130	.2035-02	.3036-02	.3990	2.762	546.7
125	217.70	.37500	722.00	.5020-01	.4070-01	.6070-01	.9130	.1824-02	.2717-02	.3580	2.483	546.2
125	217.70	.50000	723.00	.1147	.9160-01	.1409	.9130	.4103-02	.6312-02	.7570	5.268	558.0

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F23)

(IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QJT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
125	217.70	.60000	724.00	.7420-01	.6010-01	.9000-01	.9130	.2689-02	.4030-02	.5220	3.337	548.3
125	217.70	.70000	725.00	.5950-01	.4820-01	.7200-01	.9130	.2161-02	.3225-02	.4230	2.688	546.8
125	217.70	.80000	726.00	.3030-01	.2470-01	.3640-01	.9130	.1106-02	.1631-02	.2220	1.397	542.0
125	217.70	.87000	727.00	.6010-01	.4860-01	.7300-01	.9130	.2174-02	.3267-02	.4200	2.681	549.5
125	217.70	.92600	728.00	.7530-01	.5970-01	.9330-01	.9130	.2673-02	.4178-02	.4790	3.454	563.3

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = -5.000 BETA = .0000 GRIT = 4.000 - = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
165	4.520	5.034	-4.990	.0000	.0000	96.80	.3260	665.0	130.8	4.667	2533.	.2093-03
166	4.520	5.039	-5.020	.0000	.0000	96.90	.3270	665.0	130.8	4.670	2533.	.2095-03
167	4.520	5.030	-5.010	.0000	.0000	96.80	.3260	665.0	130.8	4.664	2533.	.2091-03
190	4.520	5.057	-4.990	.0000	.0000	97.00	.3270	664.0	130.6	4.676	2531.	.2101-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
165	.1053-06	.4732-01	.1142-01
166	.1053-06	.4734-01	.1142-01
167	.1053-06	.4731-01	.1143-01
190	.1051-06	.4736-01	.1140-01

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
166	.00000	.30000-02	730.00	.4055	.2903	.3824	.9576	.1374-01	.1810-01	1.609	11.04	548.1
166	.00000	.10300-01	731.00	.9150-01	.6860-01	.1160	.9183	.3249-02	.5491-02	.4330	3.001	532.1
166	.00000	.15000-01	732.00	.6470-01	.4880-01	.8160-01	.9183	.2310-02	.3863-02	.3120	2.143	530.0
166	.00000	.25000-01	734.00	.9920-01	.7340-01	.9780-01	.9521	.3472-02	.4628-02	.4430	3.027	537.7
166	.00000	.30000-01	735.00	.2194	.1587	.2186	.9505	.7513-02	.1035-01	.9030	6.187	545.0
166	.00000	.40000-01	737.00	.3107	.2252	.3130	.9490	.1066-01	.1482-01	1.287	8.410	544.4
166	.00000	.45000-01	738.00	.3219	.2336	.3286	.9473	.1106-01	.1555-01	1.341	8.890	544.0
166	.00000	.60000-01	739.00	.2886	.2049	.3075	.9425	.9699-02	.1455-01	1.112	7.459	550.6
166	.00000	.70000-01	740.00	.2363	.1695	.2576	.9395	.8026-02	.1219-01	.9940	6.384	547.6
166	.00000	.80000-01	741.00	.1893	.1368	.2108	.9367	.6474-02	.9978-02	.7760	5.643	545.4
166	.00000	.10000+00	742.00	.1657	.1216	.1911	.9317	.5756-02	.9044-02	7190	4.818	540.4
166	.00000	.12500	743.00	.1261	.9200-01	.1526	.9266	.4356-02	.7222-02	.5360	3.907	542.2
166	.00000	.15000	744.00	.8620-01	.6370-01	.1069	.9226	.3015-02	.5061-02	.3840	2.681	537.9
166	.00000	.17500	745.00	.4880-01	.3640-01	.6150-01	.9199	.1721-02	.2912-02	.2240	1.695	535.0
166	.00000	.20000	746.00	.3170-01	.2360-01	.4030-01	.9185	.1118-02	.1909-02	.1460	1.054	534.3
166	.00000	.21500	747.00	.2250-01	.1680-01	.2870-01	.9183	.7940-03	.1357-02	.1040	.7260	534.2

DATE 03 JUN 78

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F24)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
166	.00000	.23000	748.00	.1530-01	.1140-01	.1950-01	.9183	.5379-03	.9229-03	.7000-01	.5210	535.0
166	.00000	.24000	749.00	.1170-01	.8700-02	.1490-01	.9183	.4121-03	.7074-03	.5400-01	.4070	535.0
166	.00000	.25000	750.00	.5000-02	.3700-02	.6300-02	.9183	.1756-03	.2999-03	.2300-01	.1870	534.1
166	.00000	.30000	751.00	.1610-01	.1200-01	.2050-01	.9183	.5666-03	.9722-03	.7400-01	.4870	535.0
166	.00000	.35000	752.00	.2500-01	.1870-01	.3190-01	.9183	.8837-03	.1509-02	.1160	.7370	534.1
166	.00000	.40000	753.00	.5960-01	.4430-01	.7640-01	.9183	.2097-02	.3618-02	.2710	1.752	536.0
166	.00000	.50000	754.00	.5520-01	.4030-01	.7220-01	.9183	.1909-02	.3416-02	.2350	1.543	542.0
166	.00000	.60000	755.00	.5010-01	.3700-01	.6460-01	.9183	.1750-02	.3057-02	.2220	1.432	538.2
166	.00000	.70000	756.00	.4990-01	.3680-01	.6450-01	.9183	.1742-02	.3051-02	.2210	1.464	538.5
166	.00000	.80000	757.00	.4480-01	.3350-01	.5700-01	.9183	.1585-02	.2697-02	.2090	1.318	533.4
166	.00000	.90000	758.00	.2300-01	.1730-01	.2910-01	.9183	.8198-03	.1379-02	.1100	.7160	531.2
166	55.000	.22000	759.00	.2610-01	.1950-01	.3320-01	.9183	.9211-03	.1574-02	.1210	.9030	534.2
166	55.000	.25000	760.00	.9900-02	.7400-02	.1260-01	.9183	.3521-03	.5984-03	.4700-01	.3670	533.2
166	55.000	.27000	761.00	.4200-02	.3100-02	.5400-02	.9183	.1489-03	.2541-03	.2000-01	.1460	533.9
166	55.000	.30000	762.00	.3920-01	.2910-01	.5030-01	.9183	.1379-02	.2379-02	.1780	1.078	535.9
166	55.000	.32000	763.00	.3140-01	.2340-01	.4010-01	.9183	.1107-02	.1899-02	.1440	.8590	534.9
166	55.000	.34000	764.00	.2480-01	.1850-01	.3160-01	.9183	.8741-03	.1494-02	.1140	.6830	534.3
166	55.000	.36000	765.00	.4720-01	.3510-01	.6050-01	.9183	.1659-02	.2865-02	.2140	1.296	536.0
166	55.000	.38000	766.00	.5650-01	.4180-01	.7280-01	.9183	.1977-02	.3444-02	.2520	1.540	537.7
166	55.000	.40000	767.00	.4040-01	.3000-01	.5170-01	.9183	.1422-02	.2447-02	.1840	1.159	535.5
166	67.500	.23000	768.00	.3140-01	.2340-01	.3990-01	.9183	.1110-02	.1890-02	.1460	1.094	533.6
166	67.500	.25000	769.00	.1010-01	.7600-02	.1290-01	.9183	.3587-03	.6112-03	.4700-01	.3690	533.7
166	67.500	.27000	770.00	.1210-01	.9000-02	.1550-01	.9183	.4281-03	.7327-03	.5600-01	.4110	534.5
166	67.500	.29000	771.00	.2970-01	.2210-01	.3810-01	.9183	.1046-02	.1802-02	.1360	.8440	535.7
166	67.500	.30000	772.00	.4640-01	.3440-01	.5960-01	.9183	.1630-02	.2823-02	.2100	1.287	536.6
166	67.500	.31000	773.00	.4250-01	.3160-01	.5450-01	.9183	.1495-02	.2579-02	.1930	1.179	535.9
166	67.500	.32000	774.00	.6080-01	.4500-01	.7810-01	.9183	.2131-02	.3698-02	.2730	1.651	537.0
166	67.500	.32500	775.00	.6700-01	.4950-01	.8650-01	.9183	.2341-02	.4095-02	.2970	1.799	538.3
166	67.500	.33000	776.00	.8050-01	.5920-01	.1041	.9183	.2804-02	.4930-02	.3540	2.145	539.2
166	67.500	.33500	777.00	.9680-01	.7080-01	.1261	.9183	.3353-02	.5970-02	.4160	2.520	541.3
166	67.500	.34000	778.00	.1073	.7820-01	.1404	.9183	.3701-02	.6644-02	.4540	2.751	542.5
166	67.500	.34500	779.00	.1217	.8830-01	.1600	.9183	.4180-02	.7572-02	.5070	3.078	543.9
166	67.500	.35000	780.00	.1149	.8340-01	.1512	.9183	.3948-02	.7157-02	.4780	2.913	544.0
166	67.500	.35500	781.00	.1130	.8210-01	.1484	.9183	.3887-02	.7026-02	.4730	2.887	543.6
166	67.500	.36000	782.00	.1059	.7730-01	.1385	.9183	.3659-02	.6554-02	.4500	2.751	542.2
166	67.500	.36500	783.00	.8960-01	.6580-01	.1164	.9183	.3113-02	.5512-02	.3890	2.371	540.4
166	67.500	.37000	784.00	.7070-01	.5200-01	.9150-01	.9183	.2461-02	.4332-02	.3100	1.900	539.4
166	67.500	.37500	785.00	.5780-01	.4270-01	.7440-01	.9183	.2024-02	.3521-02	.2590	1.601	537.4
166	67.500	.38000	786.00	.5150-01	.3820-01	.6600-01	.9183	.1808-02	.3126-02	.2330	1.449	536.3
167	67.500	.39000	787.00	.3710-01	.2760-01	.4730-01	.9183	.1308-02	.2240-02	.1710	1.066	534.6
167	67.500	.40000	788.00	.2500-01	.1860-01	.3180-01	.9183	.8822-03	.1507-02	.1160	.7270	534.2
167	67.500	.50000	789.00	.5700-02	.4300-02	.7400-02	.9183	.2021-03	.3482-03	.2600-01	.1690	535.7
190	67.500	.60000	790.00	.5700-02	.4700-02	.6800-02	.9131	.2084-03	.3063-03	.4200-01	.2770	540.9

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RVTF24)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
190	67.500	.70000	791.00	.1910-01	.1550-01	.2300-01	.9131	.6959-03	.1030-02	.1390	.9800	543.9
190	67.500	.80000	792.00	.2430-01	.1980-01	.2920-01	.9131	.8879-03	.1309-02	.1780	1.123	542.2
190	67.500	.90000	793.00	.7600-02	.6200-02	.9200-02	.9131	.2772-03	.4133-03	.5400-01	.3510	546.8
190	78.000	.27000	794.00	.2620-01	.2130-01	.3130-01	.9133	.9561-03	.1404-02	.1930	1.381	541.1
190	78.000	.29000	795.00	.5220-01	.4200-01	.6330-01	.9141	.1881-02	.2834-02	.3570	2.194	553.2
167	78.000	.30000	796.00	.9730-01	.7090-01	.1273	.9183	.3356-02	.6020-02	.4120	2.505	542.5
167	78.000	.31000	797.00	.1262	.9060-01	.1681	.9183	.4285-02	.7951-02	.5050	3.061	547.5
167	78.000	.32000	798.00	.1508	.1072	.2032	.9183	.5069-02	.9613-02	.5830	3.508	550.3
167	78.000	.32500	799.00	.1590	.1127	.2151	.9183	.5330-02	.1018-01	.6080	3.669	551.2
167	78.000	.33000	800.00	.1708	.1210	.2310	.9183	.5726-02	.1093-01	.6540	3.943	551.2
167	78.000	.33500	801.00	.1943	.1368	.2648	.9183	.6471-02	.1253-01	.7280	4.385	552.9
167	78.000	.34000	802.00	.1971	.1387	.2690	.9183	.6562-02	.1272-01	.7370	4.438	553.1
167	78.000	.34500	803.00	.1988	.1407	.2693	.9183	.6657-02	.1274-01	.7580	4.582	551.5
167	78.000	.35000	804.00	.2013	.1432	.2711	.9183	.6775-02	.1282-01	.7810	4.725	550.1
167	78.000	.35500	805.00	.1663	.1190	.2224	.9183	.5628-02	.1052-01	.6580	3.983	548.5
167	78.000	.36000	806.00	.1277	.9200-01	.1693	.9183	.4351-02	.8011-02	.5180	3.147	546.4
167	78.000	.36500	807.00	.1140	.8260-01	.1500	.9183	.3910-02	.7095-02	.4730	2.889	544.3
167	78.000	.37000	808.00	.8300-01	.6070-01	.1084	.9183	.2869-02	.5127-02	.3540	2.170	541.9
167	78.000	.37500	909.00	.6580-01	.4820-01	.8540-01	.9183	.2282-02	.4041-02	.2850	1.748	540.5
167	78.000	.38000	810.00	.4790-01	.3530-01	.6180-01	.9183	.1670-02	.2923-02	.2120	1.307	538.5
167	78.000	.39000	811.00	.3080-01	.2290-01	.3960-01	.9183	.1061-02	.1875-02	.1390	.8600	536.9
167	78.000	.40000	812.00	.2240-01	.1670-01	.2860-01	.9183	.7884-03	.1355-02	.1020	.6350	535.4
190	90.000	.40000-01	985.00	.4758	.3473	.4523	.9570	.1645-01	.2142-01	2.022	13.19	541.2
190	90.000	.50000-01	986.00	.4297	.3150	.4190	.9535	.1492-01	.1984-01	1.855	12.04	539.8
190	90.000	.60000-01	987.00	.3703	.2634	.3700	.9501	.1248-01	.1752-01	1.436	9.439	549.1
190	90.000	.70000-01	988.00	.3297	.2368	.3379	.9469	.1121-01	.1600-01	1.322	8.886	546.3
190	90.000	.80000-01	989.00	.2854	.2054	.2998	.9438	.9729-02	.1420-01	1.153	8.175	545.7
190	90.000	.10000+00	990.00	.2351	.1723	.2573	.9382	.8161-02	.1219-01	1.015	6.642	539.9
190	90.000	.15000	991.00	.1352	.9930-01	.1621	.9270	.4704-02	.7678-02	.5890	4.341	539.0
167	90.000	.20000	813.00	.3450-01	.2560-01	.4420-01	.9184	.1213-02	.2091-02	.1570	1.146	536.1
167	90.000	.24000	814.00	.3020-01	.2240-01	.3870-01	.9183	.1061-02	.1832-02	.1370	1.115	535.2
167	90.000	.27000	816.00	.2010-01	.1490-01	.2580-01	.9183	.7044-03	.1220-02	.9100-01	.6470	536.8
167	90.000	.29000	817.00	.1387	.9890-01	.1860	.9183	.4680-02	.8799-02	.5440	3.374	549.2
167	90.000	.30000	818.00	.2406	.1634	.3434	.9183	.7732-02	.1625-01	.8020	4.865	561.6
167	90.000	.31000	819.00	.2526	.1734	.3555	.9183	.8204-02	.1682-01	.8710	5.245	559.2
167	90.000	.32000	820.00	.2635	.1803	.3724	.9183	.8531-02	.1762-01	.8990	5.400	559.9
167	90.000	.32500	821.00	.2775	.1896	.3929	.9183	.8970-02	.1859-01	.9420	5.643	560.3
167	90.000	.33000	822.00	.3163	.2134	.4556	.9183	.1009-01	.2155-01	1.032	6.168	563.1
167	90.000	.33500	823.00	.3711	.2431	.5572	.9183	.1150-01	.2636-01	1.109	6.648	568.9
167	90.000	.34000	824.00	.4151	.2715	.6245	.9183	.1284-01	.2954-01	1.235	7.362	569.2
167	90.000	.34500	825.00	.4700	.2969	.7453	.9183	.1405-01	.3526-01	1.263	7.565	575.0
167	90.000	.35000	826.00	.5556	.3288	.9877	.9183	.1555-01	.4672-01	1.267	7.521	583.9
167	90.000	.36000	828.00	.3158	.2099	.4642	.9183	.9931-02	.2196-01	.9860	5.884	566.1

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F24)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
167	90.000	.36500	829.00	.2055	.1464	.2762	.9183	.6928-02	.1306-01	.8020	4.840	549.6
167	90.000	.37000	830.00	.1056	.7720-01	.1376	.9183	.3653-02	.6510-02	.4520	2.750	541.5
167	90.000	.37500	831.00	.7670 01	.5670-01	.9890-01	.9183	.2681-02	.4680-02	.3410	2.089	538.1
167	90.000	.38000	832.00	.5890-01	.4350-01	.7600-01	.9183	.2060-02	.3595-02	.2620	1.606	538.0
167	90.000	.39000	833.00	.6910-01	.5070-01	.8990-01	.9183	.2397-02	.4252-02	.2990	1.846	540.8
167	90.000	.40000	834.00	.5870-01	.4310-01	.7610-01	.9183	.2040-02	.3600-02	.2560	1.589	539.9
167	90.000	.50000	835.00	.2710-01	.1990-01	.3510-01	.9183	.9409-03	.1659-02	.1180	.7490	539.8
167	90.000	.60000	836.00	.2450-01	.1800-01	.3160-01	.9183	.8534-03	.1495-02	.1080	.7230	538.7
167	90.000	.70000	837.00	.7740-01	.5630-01	.1015	.9183	.2662-02	.4802-02	.3250	2.289	543.4
167	90.000	.80000	838.00	.8010-01	.5910-01	.1033	.9183	.2798-02	.4889-02	.3560	2.219	538.3
167	90.000	.90000	839.00	.4350-01	.3180-01	.5660-01	.9183	.1506-02	.2678-02	.1870	1.199	541.2
167	112.50	.23000	840.00	.3360-01	.2480-01	.4310-01	.9189	.1175-02	.2039-02	.1500	1.212	537.9
167	112.50	.30000	843.00	.9250-01	.6750-01	.1208	.9185	.3191-02	.5713-02	.3920	2.338	542.5
167	112.50	.33000	844.00	.1501	.1081	.1988	.9185	.5115-02	.9406-02	.6080	3.667	546.4
167	112.50	.35000	845.00	.2411	.1683	.3317	.9185	.7960-02	.1569-01	.8760	5.347	555.3
167	112.50	.37000	846.00	.2027	.1438	.2733	.9185	.6801-02	.1293-01	.7780	4.787	550.9
167	112.50	.40000	847.00	.1027	.7530-01	.1333	.9185	.3562-02	.6307-02	.4440	2.774	540.7
167	112.50	.45000	848.00	.7100-01	.5230-01	.9170-01	.9185	.2475-02	.4339-02	.3130	1.972	539.1
167	112.50	.50000	849.00	.6770-01	.4960-01	.8800-01	.9185	.2345-02	.4163-02	.2910	1.878	541.2
167	112.50	.55000	850.00	.5860-01	.4290-01	.7600-01	.9185	.2031-02	.3597-02	.2530	1.697	540.7
167	112.50	.60000	851.00	.9390-01	.6850-01	.1225	.9185	.3242-02	.5795-02	.3990	2.682	542.2
167	112.50	.65000	852.00	.1187	.8600-01	.1562	.9185	.4071-02	.7388-02	.4920	3.349	544.5
167	112.50	.70000	853.00	.1116	.8050-01	.1475	.9185	.3807-02	.6979-02	.4540	3.190	546.0
167	112.50	.75000	854.00	.9140-01	.6670-01	.1192	.9185	.3154-02	.5641-02	.3880	2.523	542.3
167	112.50	.80000	855.00	.9930-01	.7290-01	.1288	.9185	.3448-02	.6091-02	.4310	2.813	540.4
167	112.50	.90000	856.00	.1505	.1087	.1987	.9185	.5140-02	.9400-02	.6150	3.993	545.7
167	125.40	.84000	857.00	.8230-01	.6010-01	.1072	.9187	.2841-02	.5070-02	.3500	2.165	542.3
167	125.40	.85000	858.00	.8900-01	.6500-01	.1158	.9187	.3073-02	.5476-02	.3790	2.360	542.1
167	125.40	.86000	859.00	.7610-01	.5600-01	.9820-01	.9187	.2649-02	.4647-02	.3330	2.096	539.5
167	125.40	.87000	860.00	.7540-01	.5550-01	.9740-01	.9187	.2624-02	.4607-02	.3300	2.081	539.6
167	125.40	.89000	861.00	.8640-01	.6330-01	.1121	.9187	.2994-02	.5302-02	.3720	2.345	541.1
167	125.40	.89000	862.00	.1031	.7480-01	.1352	.9187	.3537-02	.6394-02	.4280	2.710	544.3
167	125.40	.90000	863.00	.1120	.8110-01	.1470	.9187	.3838-02	.6953-02	.4640	2.950	544.6
167	125.40	.91000	864.00	.1251	.9010-01	.1654	.9187	.4264-02	.7822-02	.5070	3.688	546.4
167	125.40	.92600	865.00	.2021	.1418	.2756	.9187	.6707-02	.1304-01	.7470	5.396	553.9
167	129.30	.80000	866.00	.6770-01	.4980-01	.8730-01	.9187	.2355-02	.4132-02	.2960	1.867	539.7
167	129.30	.81000	867.00	.6400-01	.4710-01	.8250-01	.9187	.2228-02	.3902-02	.2810	1.760	539.4
167	129.30	.82000	869.00	.6340-01	.4670-01	.8150-01	.9187	.2210-02	.3856-02	.2800	1.757	538.7
167	129.30	.83000	869.00	.7150-01	.5230-01	.9260-01	.9187	.2476-02	.4381-02	.3080	1.935	541.0
167	135.00	.40000-01	870.00	.5179	.3602	.4644	.9632	.1734-01	.2197-01	1.662	11.92	556.1
167	135.00	.50000-01	871.00	.4479	.3175	.4153	.9595	.1532-01	.1955-01	1.715	10.95	551.2
167	135.00	.60000-01	872.00	.3743	.2571	.3548	.9560	.1216-01	.1678-01	1.292	8.531	559.1
167	135.00	.70000-01	873.00	.3420	.2360	.3340	.3527	.1116-01	.1580-01	1.198	8.103	558.1

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F24)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
167	135.00	.10000+00	875.00	.2697	.1920	.2849	.9434	.9084-02	.1348-01	1.050	6.878	549.8
167	135.00	.15000	876.00	.1555	.1113	.1833	.9309	.5265-02	.8672-02	.6160	4.505	548.3
167	135.00	.20000	877.00	.8650-01	.6340-01	.1083	.9224	.3001-02	.5122-02	.3740	2.530	540.7
167	135.00	.35000	878.00	.8660-01	.6360-01	.1117	.9188	.3009-02	.5285-02	.3770	2.352	540.0
167	135.00	.40000	879.00	.7140-01	.5260-01	.9190-01	.9188	.2486-02	.4349-02	.3140	1.997	539.2
167	135.00	.50000	880.00	.1394	.9930-01	.1863	.9188	.4696-02	.8813-02	.5430	3.722	549.8
167	135.00	.55000	881.00	.1021	.7360-01	.1345	.9188	.3433-02	.6361-02	.4160	2.770	546.0
167	135.00	.60000	882.00	.9500-01	.6940-01	.1233	.9188	.3284-02	.5834-02	.4060	2.734	541.8
167	135.00	.65000	883.00	.1035	.7530-01	.1352	.9188	.3560-02	.6396-02	.4330	2.963	543.6
167	135.00	.70000	884.00	.7060-01	.5160-01	.9150-01	.9188	.2441-02	.4330-02	.3020	2.152	541.6
167	135.00	.75000	885.00	.6780-01	.4990-01	.8740-01	.9188	.2359-02	.4135-02	.2960	1.875	539.7
190	135.00	.84000	887.00	.8090-01	.6500-01	.9760-01	.9150	.2908-02	.4368-02	.5480	3.434	552.3
190	135.00	.85000	888.00	.9030-01	.6630-01	.1167	.9188	.3140-02	.5525-02	.3920	2.495	539.3
190	135.00	.86000	889.00	.7410-01	.5490-01	.9480-01	.9188	.2600-02	.4490-02	.3330	2.116	536.1
190	135.00	.87000	890.00	.6860-01	.5060-01	.8810-01	.9188	.2397-02	.4170-02	.3040	1.940	537.4
190	135.00	.89000	892.00	.8320-01	.6120-01	.1072	.9188	.2900-02	.5077-02	.3650	2.381	538.5
190	135.00	.90000	893.00	.8220-01	.6050-01	.1058	.9188	.2864-02	.5010-02	.3600	2.382	538.4
190	135.00	.91000	894.00	.7 30-01	.5420-01	.9550-01	.9188	.2569-02	.4521 02	.3210	2.347	539.4
190	135.00	.92600	895.00	.8520-01	.6140-01	.1122	.9188	.2908-02	.5314-02	.3460	2.519	545.1
190	135.00	.95000	896.00	.5090-01	.3790-01	.6480-01	.9188	.1796-02	.3066-02	.2340	1.698	534.1
190	142.30	.42000	897.00	.1203	.8790-01	.1558	.9190	.4164-02	.7380-02	.5140	3.316	540.7
190	142.30	.43500	898.00	.1936	.1391	.2559	.9190	.6586-02	.1212-01	.7760	4.853	546.3
190	142.30	.45000	899.00	.1541	.1123	.2003	.9190	.5318-02	.9485-02	.6520	4.275	541.7
190	142.30	.50000	900.00	.2024	.1457	.2668	.9190	.6899-02	.1264-01	.8180	5.450	545.7
190	142.30	.60000	901.00	.1139	.8350-01	.1471	.9190	.3953-02	.6956-02	.4920	3.278	539.8
190	142.30	.70000	902.00	.8370-01	.6200-01	.1069	.9190	.2937-02	.5062-02	.3770	2.584	536.0
190	142.30	.80000	903.00	.8600-01	.6430-01	.1088	.9190	.3043-02	.5154-02	.4000	2.559	532.8
190	142.30	.87000	904.00	.6190-01	.4530-01	.8010-01	.9190	.2147-02	.3792-02	.2660	1.689	540.1
190	154.98	.42000	905.00	.1702	.1234	.2224	.9191	.5842-02	.1053-01	.7050	4.552	543.5
190	154.96	.43500	906.00	.1762	.1275	.2307	.9191	.6037-02	.1093-01	.7260	4.709	544.1
190	154.98	.45000	907.00	.1302	.9540-01	.1679	.9191	.4519-02	.7953-02	.5620	3.683	539.7
190	154.98	.50000	908.00	.1651	.1193	.2163	.9191	.5662-02	.1024-01	.6780	4.853	544.3
190	154.98	.93500	913.00	.1974	.1326	.2827	.9191	.6291-02	.1339-01	.6380	4.585	563.0
190	154.98	.94500	914.00	.1885	.1295	.2623	.9191	.6131-02	.1242-01	.6500	4.657	558.1
190	157.50	.80000-01	919.00	.3542	.2527	.3507	.9512	.1197-01	.1681-01	1.387	9.455	548.3
190	157.50	.20000	922.00	.1013	.7510-01	.1215	.9232	.3559-02	.5895-02	.4580	3.065	535.6
190	157.50	.42000	923.00	.1618	.1181	.2096	.9192	.5594-02	.9924-02	.6880	4.502	541.2
190	157.50	.43500	924.00	.2058	.1474	.2725	.9192	.6978-02	.1290-01	.8160	5.335	547.3
190	157.50	.45000	925.00	.1990	.1423	.2639	.9192	.6737-02	.1250-01	.7840	5.175	547.8
190	157.50	.85000	926.00	.7580-01	.5630-01	.9650-01	.9192	.2655-02	.4572-02	.3430	2.230	535.5
190	157.50	.86000	927.00	.9820-01	.7240-01	.1258	.9192	.3430-02	.5958-02	.4340	2.826	537.7
190	157.50	.87000	928.00	.1003	.7390-01	.1287	.9192	.3499-02	.6095-02	.4410	2.880	538.2
190	157.50	.88000	929.00	.1210	.8840-01	.1567	.9192	.4185-02	.7421-02	.5150	3.380	541.1

(IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F24)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
190	157.50	.89000	930.00	.1209	.8760-01	.1574	.9192	.4160-02	.7452-02	.5050	3.333	542.7
190	157.50	.90000	931.00	.1045	.7520-01	.1376	.9192	.3562-02	.6517-02	.4220	2.844	545.8
190	157.50	.91000	932.00	.9390-01	.7100-01	.1351	.9192	.3364-02	.6304-02	.3870	2.830	549.1
190	157.50	.92600	933.00	.9720-01	.6730-01	.1336	.9192	.3189-02	.6025-02	.3450	2.507	555.9
190	163.12	.44500	934.00	.1185	.8730-01	.1519	.9193	.4135-02	.7192-02	.5220	3.399	539.0
190	163.12	.46000	935.00	.1425	.1041	.1843	.9193	.4930-02	.8728-02	.6080	3.988	543.9
190	163.12	.48000	937.00	.2544	.1781	.3454	.9193	.8432-02	.1636-01	.9330	6.103	553.5
190	163.12	.49000	938.00	.3196	.2189	.4430	.9193	.1062-01	.2038-01	1.109	7.219	557.7
190	163.12	.49500	939.00	.2662	.1886	.3656	.9195	.8930-02	.1874-01	.9980	6.525	557.8
190	163.12	.49800	940.00	.2620	.1806	.3586	.9193	.8626-02	.1698-01	.9410	6.220	555.2
190	163.12	.50000	941.00	.1206	.8810-01	.1560	.9193	.4101-02	.7389-02	.5130	3.492	541.1
190	163.12	.52000	942.00	.1367	.1007	.1780	.9193	.4758-02	.8333-02	.5930	3.839	539.4
190	163.12	.62000	943.00	.9090-01	.6780-01	.1156	.9193	.3197-02	.5472-02	.4120	2.648	535.2
190	163.12	.70000	944.00	.7390-01	.5610-01	.9570-01	.9193	.2607-02	.4436-02	.3330	2.226	534.1
190	163.12	.80000	945.00	.6830-01	.4750-01	.7990-01	.9193	.2247-02	.3782-02	.2970	1.895	532.1
190	168.00	.35000	946.00	.8240-01	.6110-01	.7910-01	.9193	.2228-02	.3745-02	.2950	1.888	531.9
190	168.00	.36000	946.00	.8140-01	.6030-01	.7800-01	.9193	.2187-02	.3645-02	.2870	1.840	532.0
190	168.00	.37000	947.00	.8110-01	.6010-01	.7780-01	.9193	.2171-02	.3562-02	.2780	1.783	532.6
190	168.00	.37500	948.00	.8380-01	.6400-01	.7980-01	.9193	.2311-02	.3856-02	.2980	1.910	534.1
190	168.00	.38000	950.00	.9350-01	.6980-01	.1189	.9193	.3336-02	.5624-02	.4300	2.790	538.3
190	168.00	.38500	951.00	.1181	.8700-01	.1515	.9193	.4118-02	.7174-02	.5180	3.376	538.8
190	168.00	.39000	952.00	.1085	.8000-01	.1339	.9193	.3789-02	.6578-02	.4790	3.075	537.8
190	168.00	.40000	953.00	.9560-01	.7050-01	.1221	.9193	.3344-02	.5780-02	.4250	2.781	537.0
190	168.00	.40500	954.00	.1060	.7810-01	.1355	.9193	.3706-02	.6418-02	.4700	3.082	537.3
190	168.00	.41000	955.00	.1128	.8301-01	.1448	.9193	.3931-02	.6857-02	.4940	3.235	538.6
190	168.00	.41500	956.00	.1203	.8781-01	.1536	.9193	.4161-02	.7368-02	.5120	3.353	541.0
190	169.00	.42000	957.00	.1690	.1229	.2205	.9193	.5795-02	.1044-01	.6980	4.587	543.7
190	168.00	.42500	959.00	.1784	.1293	.2354	.9193	.6126-02	.1115-01	.7280	4.783	545.3
190	168.00	.43000	960.00	.2013	.2045	.4349	.9193	.9686-02	.2011-01	1.001	6.526	550.8
190	168.00	.43500	961.00	.3196	.2198	.4352	.9193	.1038-01	.2061-01	1.121	7.325	556.2
190	168.00	.44000	962.00	.2633	.1873	.3708	.9193	.8868-02	.1661-01	1.020	6.683	549.2
190	168.00	.44500	963.00	.2430	.1587	.3140	.9193	.7618-02	.1332-01	.8760	5.779	547.7
190	168.00	.45000	964.00	.2144	.1420	.2849	.9193	.6735-02	.1154-01	.7800	5.147	548.3
190	168.00	.45500	965.00	.1944	.1312	.2618	.9193	.5913-02	.1035-01	.6830	4.574	547.7
190	168.00	.46000	966.00	.1836	.1215	.2443	.9193	.5078-02	.9921-02	.6150	4.135	545.0
190	168.00	.46500	967.00	.1733	.1210	.2428	.9193	.4801-02	.8184-02	.5630	3.786	541.8
190	168.00	.47000	968.00	.1651	.1153	.2306	.9193	.4319-02	.8405-02	.4750	3.211	536.4
190	168.00	.48000	969.00	.1550-01	.1082	.2168	.9193	.2816-02	.4868-02	.3590	2.339	535.9
190	168.00	.49000	970.00	.1548	.1081	.2168	.9193	.3884-02	.7017-02	.4940	3.224	540.2
190	168.00	.50000	971.00	.1745	.1218	.2436	.9193	.6373-02	.1148-01	.7880	5.035	543.5
190	168.00	.60000	972.00	.1669	.1165	.2329	.9193	.6033-02	.1068-01	.7150	4.597	543.6
190	168.00	.70000	973.00	.1429	.9980-01	.1997	.9193	.4401-02	.8018-02	.5830	3.475	545.4
190	168.00	.80000	974.00	.1357	.9480-01	.1898	.9193	.6572-02	.1359-01	.7600	5.097	550.0
190	168.00	.90000	974.00	.8600-01	.6000-01	.1200	.9193	.2839-02	.5412-02	.3200	2.329	551.5

(RV7F24)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
190	168.00	.92600	975.00	.9910-01	.6700-01	.1404	.9193	.3175-02	.6649-02	.3260	2.343	561.6
190	168.00	.95000	976.00	.5550-01	.4130-01	.7040-01	.9193	.1956-02	.3334-02	.2540	1.838	534.5
190	180.00	.20000-01	982.00	.3757	.2781	.3271	.9711	.1317-01	.1549-01	1.683	11.76	535.4
190	180.00	.25000-01	983.00	.7636	.5392	.6589	.9691	.2553-01	.3120-01	2.886	19.89	551.2
190	180.00	.30000-01	984.00	.7833	.5691	.6929	.9674	.2648-01	.3281-01	2.973	20.36	551.9
185	180.00	.40000-01	600.00	.5316	.3723	.4682	.9659	.1782-01	.2216-01	1.957	12.53	554.3
165	180.00	.50000-01	601.00	.4750	.3371	.4380	.9622	.1595-01	.2044-01	1.827	11.76	550.8
185	180.00	.60000-01	602.00	.4380	.2904	.4067	.9606	.1417-01	.1920-01	1.489	9.949	560.3
185	180.00	.70000-01	603.00	.3770	.2605	.3684	.9652	.1233-01	.1705-01	1.329	9.018	557.6
185	180.00	.80000-01	604.00	.3588	.2505	.3584	.9619	.1185-01	.1668-01	1.311	8.985	554.7
185	180.00	.10000+00	605.00	.2718	.1920	.2811	.9457	.9084-02	.1330-01	1.035	7.409	551.5
185	180.00	.15000	606.00	.1584	.1109	.1800	.9327	.5248-02	.9517-02	.9120	4.447	548.7
185	180.00	.20000	607.00	.9790-01	.6720-01	.1138	.9236	.3181-02	.5387-02	.3860	2.585	541.2
185	180.00	.21000	608.00	.7790-01	.5720-01	.9750-01	.9222	.2708-02	.4613-02	.3390	2.348	540.2
185	180.00	.22000	609.00	.6530-01	.4790-01	.8160-01	.9211	.2263-02	.3909-02	.2840	2.119	540.3
185	180.00	.30000	610.00	.5610-01	.4170-01	.7030-01	.9193	.1973-02	.3469-02	.2450	1.685	540.9
185	180.00	.35000	611.00	.5430-01	.4000-01	.6760-01	.9193	.1894-02	.3291-02	.2330	1.601	538.9
185	180.00	.36000	612.00	.5200-01	.3860-01	.6530-01	.9193	.1808-02	.3136-02	.2290	1.542	538.8
185	180.00	.37000	613.00	.5170-01	.4370-01	.7610-01	.9193	.2066-02	.3599-02	.2600	1.756	539.4
185	180.00	.38000	614.00	.5630-01	.4570-01	.8040-01	.9193	.2164-02	.3789-02	.2710	1.826	540.2
185	180.00	.39000	615.00	.7010-01	.5180-01	.9060-01	.9193	.2424-02	.4266-02	.3030	2.019	541.8
185	180.00	.39500	616.00	.8810-01	.7130-01	.1276	.9193	.3372-02	.6038-02	.4100	2.760	543.8
185	180.00	.40000	617.00	.1008	.7860-01	.1375	.9193	.3641-02	.6505-02	.4440	2.978	543.5
185	180.00	.40500	618.00	.1009	.7870-01	.1359	.9193	.3671-02	.6193-02	.4240	2.662	543.3
185	180.00	.41000	619.00	.1008	.7860-01	.1346	.9193	.3658-02	.6369-02	.4330	2.804	543.7
185	180.00	.42000	620.00	.1009	.8130-01	.1473	.9193	.3848-02	.6970-02	.4610	3.100	545.5
185	180.00	.43000	621.00	.1080	.1053	.1853	.9193	.4744-02	.8817-02	.5510	3.700	549.2
185	180.00	.44000	622.00	.1210	.1241	.2366	.9193	.5872-02	.1120-01	.6630	4.427	552.5
185	180.00	.45000	623.00	.1487	.1787	.3618	.9193	.8458-02	.1712-01	.8970	5.973	559.3
185	180.00	.45500	625.00	.1788	.2108	.4448	.9193	.9974-02	.2105-01	1.017	6.782	563.3
185	180.00	.46000	626.00	.2379	.2762	.5692	.9193	.1118-01	.2646-01	1.039	6.891	572.4
185	180.00	.46500	627.00	.3913	.2154	.4907	.9193	.1019-01	.2322-01	.9750	6.536	569.7
185	180.00	.47000	628.00	.2948	.1661	.3451	.9193	.7858-02	.1633-01	.8130	5.472	551.9
185	180.00	.48000	629.00	.1820	.1275	.2465	.9193	.6034-02	.1166 01	.6710	4.603	554.2
185	180.00	.46000	630.00	.1391	.9950-01	.1840	.9193	.4710-02	.8706-02	.5510	3.699	548.4
185	180.00	.47000	631.00	.7140-01	.5220-01	.9210-01	.9193	.2471-02	.4357-02	.3060	2.065	541.4
165	180.00	.48000	632.00	.4540-01	.3310-01	.5880-01	.9193	.1567-02	.2780-02	.1930	1.306	542.4
165	180.00	.49000	633.00	.7010-01	.5040-01	.9220-01	.9193	.2385-02	.4362-02	.2820	1.928	546.9
165	180.00	.50000	634.00	.1414	.9910-01	.1915	.9193	.4691-02	.9063-02	.5220	3.637	554.1
165	180.00	.55000	635.00	.9950-01	.7150-01	.1310	.9193	.3382-02	.6199-02	.3990	2.651	547.3
165	180.00	.60000	636.00	.1310	.9430-01	.1722	.9193	.4462-02	.8147-02	.5290	3.413	546.7
165	180.00	.65000	637.00	.1216	.8770-01	.1594	.9193	.4151-02	.7544-02	.4950	3.204	546.0
165	180.00	.70000	638.00	.8390-01	.6080-01	.1093	.9193	.2879-02	.5170-02	.3490	2.389	544.3

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F24)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R* TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
165	180.00	.75000	639.00	.4890-01	.3580-01	.6300-01	.9193	.1694-02	.2983-02	.2100	1.360	541.2
165	180.00	.80000	640.00	.7820-01	.5730-01	.1005	.9193	.2714-02	.4757-02	.3390	2.131	540.4
165	180.00	.85000	641.00	.8310-01	.6030-01	.1081	.9193	.2855-02	.5114-02	.3470	2.195	543.9
165	180.00	.86000	642.00	.7770-01	.5600-01	.1019	.9193	.2651-02	.4620-02	.3160	2.028	546.1
165	180.00	.87000	643.00	.1218	.8720-01	.1611	.9193	.4126-02	.7623-02	.4830	3.109	548.4
165	180.00	.88000	644.00	.1281	.9130-01	.1701	.9193	.4322-02	.8048-02	.5010	3.254	549.5
165	180.00	.89000	645.00	.1049	.7410-01	.1408	.9193	.3506-02	.6665-02	.3970	2.606	552.1
165	180.00	.90000	646.00	.1145	.8050-01	.1546	.9193	.3808-02	.7318-02	.4260	2.855	553.5
165	180.00	.92600	648.00	.8240-01	.5380-01	.1224	.9193	.2545-02	.5792-02	.2440	1.756	569.6
165	180.00	.95000	649.00	.2990-01	.2190-01	.3860-01	.9193	.1036-02	.1826-02	.1280	.9300	541.4
165	19..25	.35000	650.00	.6010-01	.4430-01	.7690-01	.9193	.2094-02	.3640-02	.2650	1.787	538.9
165	191.25	.36000	651.00	.6050-01	.4460-01	.7750-01	.9193	.2109-02	.3669-02	.2660	1.802	539.1
165	191.25	.37000	652.00	.7400-01	.5430-01	.9540-01	.9193	.2567-02	.4513-02	.3230	2.156	540.8
165	191.25	.37500	653.00	.7910-01	.5780-01	.1021	.9193	.2735-02	.4832-02	.3380	2.288	541.6
165	191.25	.38000	654.00	.9050-01	.6600-01	.1174	.9193	.3121-02	.5557-02	.3820	2.582	542.9
165	191.25	.38500	655.00	.9740-01	.7070-01	.1268	.9193	.3348-02	.6000-02	.4070	2.745	543.9
165	191.25	.39000	656.00	.1029	.7460-01	.1341	.9193	.3530-02	.6346-02	.4270	2.884	544.3
165	191.25	.39500	657.00	.1218	.8810-01	.1590	.9193	.4171-02	.7524-02	.5020	3.390	544.9
165	191.25	.40000	658.00	.1239	.8950-01	.1622	.9193	.4233-02	.7675-02	.5070	3.430	545.6
165	191.25	.40500	659.00	.1312	.9450-01	.1724	.9193	.4472-02	.8156-02	.5320	3.595	546.5
165	191.25	.41000	660.00	.1577	.1129	.2086	.9193	.5342-02	.9872-02	.6250	4.210	548.3
165	191.25	.41500	661.00	.1792	.1277	.2382	.9193	.6041-02	.1127-01	.6990	4.690	549.7
165	191.25	.42000	662.00	.2449	.1697	.3364	.9193	.8031-02	.1592-01	.8700	5.857	557.0
165	191.25	.42500	663.00	.2949	.2008	.4140	.9193	.9500-02	.1959-01	.9900	6.648	561.1
165	191.25	.43000	664.00	.3522	.2306	.5209	.9193	.1091-01	.2465-01	1.051	7.093	569.0
165	191.25	.44000	665.00	.3055	.2057	.4352	.9193	.9734-02	.2060-01	.9910	6.665	563.5
165	191.25	.45000	666.00	.2041	.1436	.2753	.9193	.6797-02	.1303-01	.7630	5.160	553.1
165	191.25	.45500	667.00	.1917	.1346	.2593	.9193	.6368-02	.1227-01	.7110	4.804	553.7
165	191.25	.46000	668.00	.1812	.1270	.2455	.9193	.6010-02	.1162-01	.6680	4.530	554.1
165	191.25	.47000	669.00	.1584	.1120	.2125	.9193	.5300-02	.1006-01	.6020	4.095	551.8
165	191.25	.48000	670.00	.1635	.1158	.2187	.9193	.5481-02	.1035-01	.6260	4.261	551.2
165	191.25	.49000	671.00	.1482	.1053	.1977	.9193	.4981-02	.9357-02	.5720	3.882	550.6
165	191.25	.50000	672.00	.1499	.1052	.2027	.9193	.4980-02	.9593-02	.5560	3.853	553.7
165	191.25	.60000	673.00	.1193	.8670-01	.1551	.9193	.4101-02	.7358-02	.4990	3.205	543.6
165	191.25	.70000	674.00	.1118	.8010-01	.1478	.9193	.3791-02	.6933-02	.4440	3.022	548.1
165	191.25	.85000	676.00	.8130-01	.5940-01	.1050	.9193	.2812-02	.4971-02	.3480	2.202	541.7
165	191.25	.86000	677.00	.6950-01	.5050-01	.9030-01	.9193	.2390-02	.4274-02	.2910	1.864	543.5
165	191.25	.87000	678.00	.6130-01	.4430-01	.8020-01	.9193	.2097-02	.3795-02	.2520	1.624	545.3
165	191.25	.88000	679.00	.7450-01	.5330-01	.9870-01	.9193	.2522-02	.4669-02	.2940	1.920	548.6
165	191.25	.89000	680.00	.9440-01	.6690-01	.1263	.9193	.3164-02	.5975-02	.3610	2.385	551.2
165	191.25	.90000	681.00	.1142	.7990-01	.1550	.9193	.3780-02	.7336-02	.4190	2.811	554.6
165	191.25	.91000	682.00	.7190-01	.4980-01	.9880-01	.9193	.2357-02	.4674-02	.2550	1.853	557.0
165	191.25	.92600	683.00	.1297	.8640-01	.1875	.9193	.4086-02	.8875-02	.4070	2.947	565.8

(RV7F24)

(IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
165	191.25	.95000	684.00	.3560-01	.2610-01	.4570-01	.9193	.1235-02	.2163-02	.1550	1.121	540.2
165	197.00	.33000	685.00	.5320-01	.3930-01	.6820-01	.9193	.1858-02	.3225-02	.2350	1.559	538.7
165	197.00	.34000	686.00	.5170-01	.3810-01	.6630-01	.9193	.1804-02	.3138-02	.2280	1.538	539.0
165	197.00	.35000	687.00	.5330-01	.3930-01	.6830-01	.9193	.1860-02	.3233-02	.2350	1.589	538.8
165	197.00	.36000	688.00	.7680-01	.5630-01	.9880-01	.9193	.2665-02	.4676-02	.3330	2.244	540.5
165	197.00	.37000	689.00	.8240-01	.6030-01	.1065	.9193	.2852-02	.5038-02	.3530	2.380	541.5
165	197.00	.37500	690.00	.9510-01	.6940-01	.1231	.9193	.3285-02	.5827-02	.4040	2.733	542.2
165	197.00	.50000	691.00	.2247	.1507	.3218	.9193	.7131-02	.1523-01	.7210	4.801	564.3
165	197.00	.60000	692.00	.9360-01	.6830-01	.1212	.9193	.3233-02	.5733-02	.3980	2.574	542.2
165	197.00	.70000	693.00	.1485	.1036	.2023	.9193	.4903-02	.9575-02	.5400	3.646	555.2
165	197.00	.80000	694.00	.6070-01	.4480-01	.7780-01	.9193	.2120-02	.3680-02	.2690	1.695	538.6
165	197.00	.87000	695.00	.6230-01	.4510-01	.8150-01	.9193	.2133-02	.3855-02	.2560	1.636	545.1
165	197.00	.92600	696.00	.157	.1046	.2272	.9193	.4950-02	.1075-01	.4930	3.571	565.8
190	209.80	.15000-01	697.00	.1411	.1149	.1692	.9136	.5146-02	.7575-02	1.031	7.093	543.2
166	209.80	.30000-01	698.00	.6348	.4747	.5989	.9662	.2247-01	.2835-01	2.436	16.49	566.8
166	209.80	.50000-01	699.00	.5270	.3770	.4846	.9610	.1784-01	.2294-01	2.085	13.24	548.4
166	209.80	.70000-01	700.00	.4559	.3144	.4432	.9541	.1488-01	.2098-01	1.566	10.52	550.1
166	209.80	.10000+00	701.00	.3286	.2315	.3439	.9447	.1096-01	.1628-01	1.234	7.844	552.6
165	209.80	.15000	702.00	.1641	.1174	.1917	.9319	.5560-02	.9072-02	.6500	4.649	548.2
165	209.80	.20000	703.00	.8640-01	.6380-01	.1067	.9230	.3021-02	.5050-02	.3850	2.574	537.9
66	209.80	.30000	704.00	.5840-01	.4370-01	.7640-01	.9191	.2069-02	.3615-02	.2600	1.852	539.4
66	209.80	.36000	705.00	.7270-01	.5360-01	.9330-01	.9191	.2537-02	.4415-02	.3210	2.207	538.7
166	209.80	.37500	706.00	.1112	.8050-01	.1455	.9191	.3809-02	.6889-02	.4590	3.152	544.9
166	209.80	.50000	707.00	.1704	.1205	.2290	.9191	.5706-02	.1084-01	.6480	4.427	551.6
166	209.80	.60000	708.00	.2268	.9220-01	.1623	.9191	.4365-02	.7684-02	.5440	3.478	540.6
166	209.80	.70000	709.00	.1690-01	.7090-01	.1254	.9191	.3355-02	.5936-02	.4150	2.654	541.5
166	209.80	.80000	710.00	.1288-01	.5730-01	.6340-01	.9191	.1767-02	.2999-02	.2320	1.452	534.2
166	209.80	.87000	711.00	.1001-01	.6200-01	.9060-01	.9191	.2463-02	.4290-02	.3110	1.974	538.9
166	209.80	.92600	712.00	.1363	.9510-01	.1860	.9191	.4504-02	.8805-02	.4960	3.592	555.1
166	217.70	.15000-01	713.00	.4936	.2173	.3819	.9190	.1029-01	.1808-01	1.286	8.890	540.2
166	217.70	.30000-01	714.00	.4078	.4660	.5888	.9655	.2206-01	.2787-01	2.428	16.45	555.2
166	217.70	.50000-01	715.00	.8037	.3915	.4932	.9603	.1806-01	.2335-01	2.107	13	548.6
166	217.70	.70000-01	716.00	.5104	.3412	.4937	.9534	.1615-01	.2337-01	1.621	10.96	564.9
166	217.70	.10000+00	717.00	.3808	.2295	.3367	.9441	.1086-01	.1594-01	1.269	8.224	548.4
166	217.70	.15000	718.00	.1813	.1287	.2138	.9314	.6093-02	.1012-01	.6980	5.100	550.6
166	217.70	.20000	719.00	.9280-01	.6870-01	.1149	.9228	.3252-02	.5433-02	.4160	2.815	537.4
166	217.70	.30000	720.00	.6870-01	.5020-01	.8890-01	.9190	.2377-02	.4210-02	.2940	2.111	541.4
166	217.70	.35000	721.00	.8250-01	.6050-01	.1065	.9190	.2865-02	.5039-02	.3580	2.488	540.3
166	217.70	.37500	722.00	.8090-01	.5950-01	.1043	.9190	.2815-02	.4937-02	.3530	2.455	539.8
166	217.70	.50000	723.00	.1706	.1208	.2292	.9190	.5719-02	.1085-01	.6520	4.494	551.2
166	217.70	.60000	724.00	.1185	.8690-01	.1529	.9190	.4113-02	.7240-02	.5130	3.291	540.5
166	217.70	.70000	725.00	.7900-01	.5840-01	.1011	.9190	.2763-02	.4785-02	.3520	2.251	537.7
166	217.70	.80000	726.00	.4760-01	.3550-01	.6040-01	.9190	.1681-02	.2857-02	.2200	1.393	534.3

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F24)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
166	217.70	.87000	727.00	.9360-01	.6840-01	.1214	.9190	.3239-02	.5746-02	.4000	2.565	541.7
166	217.70	.92600	728.00	.1340	.9480-01	.1802	.9190	.4488-02	.8529-02	.5100	3.702	551.5

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F24)

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = -5.000 BETA = .0000 GRIT = 4.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
115	5.500	4.981	-4.970	.0000	.0000	177.8	.1910	741.0	105.1	4.046	2763.	.1525-03
133	5.500	4.963	-4.960	.0000	.0000	177.7	.1910	743.0	105.3	4.045	2766.	.1522-03
134	5.500	4.935	-4.990	.0000	.0000	177.5	.1910	745.0	105.6	4.039	2770.	.1515-03
135	5.500	4.937	-5.010	.0000	.0000	177.3	.1910	744.0	105.5	4.035	2769.	.1515-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
115	.8460-07	.4475-01	.1362-01
133	.8480-07	.4476-01	.1365-01
134	.8505-07	.4474-01	.1368-01
135	.8496-07	.4471-01	.1368-01

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
134	.00000	.30000-02	730.00	.3387	.2718	.3291	.9560	.1216-01	.1472-01	2.291	15.66	556.3
134	.00000	.10300-01	731.00	.8050-01	.6680-01	.9500-01	.9130	.2988-02	.4252-02	.6510	4.529	526.8
134	.00000	.15000-01	732.00	.4760-01	.3960-01	.5600-01	.9130	.1771-02	.2504-02	.3920	2.636	523.6
134	.00000	.25000-01	734.00	.5910-01	.4860-01	.5890-01	.9505	.2176-02	.2637-02	.4590	3.145	533.7
134	.00000	.30000-01	735.00	.1819	.1482	.1829	.9489	.6629-02	.8181-02	1.331	9.125	543.9
134	.00000	.40000-01	737.00	.3490	.2825	.3534	.9474	.1264-01	.1581-01	2.467	16.07	549.5
134	.00000	.45000-01	738.00	.3525	.2853	.3599	.9457	.1277-01	.1610-01	2.493	16.49	549.4
134	.00000	.60000-01	739.00	.3113	.2483	.3267	.9407	.1111-01	.1462-01	2.046	13.66	560.6
134	.00000	.70000-01	740.00	.2410	.1937	.2566	.9376	.8669-02	.1148-01	1.646	11.08	554.9
134	.00000	.80000-01	741.00	.1964	.1586	.2119	.9347	.7038-02	.9480-02	1.375	9.973	551.0
134	.00000	.10000+00	742.00	.1530	.1247	.1689	.9293	.5532-02	.7557-02	1.125	7.527	543.2
134	.00000	.12500	743.00	.1179	.9600-01	.1340	.9235	.4296-02	.5997-02	.8630	6.282	543.9
134	.00000	.15000	744.00	.8030-01	.6590-01	.9300-01	.9188	.2949-02	.4163-02	.6110	4.268	537.5
134	.00000	.17500	745.00	.4630-01	.3820-01	.5430-01	.9154	.1709-02	.2430-02	.3630	2.746	532.5
134	.00000	.20000	746.00	.3640-01	.3010-01	.4300-01	.9133	.1345-02	.1924-02	.2880	2.080	530.3
134	.00000	.21500	747.00	.2100-01	.1730-01	.2480-01	.9130	.7749-03	.1110-02	.1660	1.162	530.1

(H41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
134	.00000	.23000	748.00	.1400-01	.1160-01	.1660-01	.9130	.5190-03	.7449-03	.1110	.8260	531.1
134	.00000	.24000	749.00	.1110-01	.9100-02	.1310-01	.9130	.4093-03	.5872-03	.8800-01	.6660	530.8
134	.00000	.25000	750.00	.4500-02	.3700-02	.5300-02	.9130	.1666-03	.2386-03	.3600-01	.2920	530.0
134	.00000	.30000	751.00	.6400-02	.5300-02	.7600-02	.9130	.2370-03	.3399-03	.5100-01	.3750	530.8
134	.00000	.35000	752.00	.1640-01	.1360-01	.1950-01	.9130	.6069-03	.8711-03	.1300	.8260	531.0
134	.00000	.40000	753.00	.4340-01	.3570-01	.5160-01	.9130	.1598-02	.2310-02	.3360	2.174	534.5
134	.00000	.50000	754.00	.7160-01	.5840-01	.8590-01	.9130	.2612-02	.3845-02	.5280	3.460	542.7
134	.00000	.60000	755.00	.4570-01	.3750-01	.5450-01	.9130	.1676-02	.2438-02	.3470	2.236	537.6
134	.00000	.70000	756.00	.4480-01	.3680-01	.5340-01	.9130	.1645-02	.2390-02	.3420	2.270	536.8
134	.00000	.80000	757.00	.3520-01	.2900-01	.4170-01	.9130	.1299-02	.1868-02	.2760	1.743	532.1
134	.00000	.90000	758.00	.2080-01	.1720-01	.2460-01	.9130	.7715-03	.1101-02	.1670	1.089	528.4
134	55.000	.22000	759.00	.2150-01	.1770-01	.2540-01	.9130	.7937-03	.1138-02	.1700	1.274	530.7
134	55.000	.25000	760.00	.8900-02	.7400-02	.1050-01	.9130	.3290-03	.4699-03	.7100-01	.5620	528.7
134	55.000	.27000	761.00	.6500-02	.5400-02	.7700-02	.9130	.2397-03	.3424-03	.5200-01	.3890	528.9
134	55.000	.30000	762.00	.2350-01	.1940-01	.2790-01	.9130	.8683-03	.1246-02	.1860	1.124	531.1
134	55.000	.32000	763.00	.3130-01	.2630-01	.3780-01	.9130	.1176-02	.1691-02	.2500	1.493	531.9
134	55.000	.34000	764.00	.2340-01	.1930-01	.2770-01	.9130	.8624-03	.1239-02	.1840	1.099	531.6
134	55.000	.38000	766.00	.6030-01	.4950-01	.7200-01	.9130	.2215-02	.3220-02	.4600	2.810	537.1
134	55.000	.40000	767.00	.3780-01	.3120-01	.4490-01	.9130	.1394-02	.2010-02	.2950	1.855	533.3
134	67.500	.23000	768.00	.2140-01	.1760-01	.2530-01	.9130	.7891-03	.1133-02	.1690	1.264	531.1
134	67.500	.25000	769.00	.1050-01	.8700-02	.1250-01	.9130	.3902-03	.5582-03	.8400-01	.6590	529.4
134	67.500	.27000	770.00	.1150-01	.9500-02	.1370-01	.9130	.4270-03	.6112-03	.9200-01	.6760	529.7
134	67.500	.29000	771.00	.2480-01	.2050-01	.2940-01	.9130	.9152-03	.1317-02	.1940	1.214	532.3
134	67.500	.30000	772.00	.4170-01	.3430-01	.4960-01	.9130	.1534-02	.2218-02	.3220	1.983	534.6
134	67.500	.31000	773.00	.4670-01	.3840-01	.5550-01	.9130	.1719-02	.2482-02	.3620	2.209	534.1
134	67.500	.32000	774.00	.6450-01	.5300-01	.7690-01	.9130	.2372-02	.3443-02	.4940	2.986	536.4
134	67.500	.32500	775.00	.7810-01	.6390-01	.9340-01	.9130	.2861-02	.4177-02	.5880	3.560	539.1
134	67.500	.33000	776.00	.9160-01	.7490-01	.1098	.9130	.3350-02	.4915-02	.6820	4.133	541.2
134	67.500	.33500	777.00	.1059	.8620-01	.1274	.9130	.3857-02	.5701-02	.7730	4.678	544.4
134	67.500	.34000	778.00	.1111	.9030-01	.1339	.9130	.4042-02	.5990-02	.8060	4.873	545.4
134	67.500	.34500	779.00	.1162	.9430-01	.1402	.9130	.4220-02	.6271-02	.8360	5.069	546.6
134	67.500	.35000	780.00	.1159	.9410-01	.1397	.9130	.4211-02	.6252-02	.8360	5.082	546.2
134	67.500	.35500	781.00	.1155	.9370-01	.1394	.9130	.4192-02	.6238-02	.8280	5.046	547.2
134	67.500	.36000	782.00	.1026	.8350-01	.1235	.9130	.3735-02	.5527-02	.7460	4.551	545.0
134	67.500	.36500	783.00	.9070-01	.7410-01	.1089	.9130	.3315-02	.4870-02	.6720	4.097	541.9
134	67.500	.37000	784.00	.7710-01	.6310-01	.9230-01	.9130	.2824-02	.4130-02	.5790	3.550	539.8
134	67.500	.37500	785.00	.6320-01	.5190-01	.7540-01	.9130	.2323-02	.3374-02	.4830	2.991	536.8
134	67.500	.38000	786.00	.5180-01	.4250-01	.6160-01	.9130	.1903-02	.2757-02	.3980	2.475	535.5
134	67.500	.39000	787.00	.4020-01	.3320-01	.4780-01	.9130	.1484-02	.2137-02	.3150	1.965	532.6
134	67.500	.40000	788.00	.3060-01	.2530-01	.3630-01	.9130	.1130-02	.1623-02	.2410	1.519	531.3
135	67.500	.50000	789.00	.6000-02	.4900-02	.7100-02	.9130	.2210-03	.3158-03	.4800-01	.3090	528.9
135	67.500	.60000	790.00	.8400-02	.6900-02	.1000-01	.9130	.3098-03	.4459-03	.6600-01	.4350	532.4
135	67.500	.70000	791.00	.2220-01	.1830-01	.2650-01	.9130	.8178-03	.1184-02	.1710	1.217	535.2

DATE 03 JUN 76 · AEDC V41A-A4A (1H-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F24)

1H41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	HI(TO) BTU/ R FT2SEC	HI(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
135	67.500	.80000	792.00	.2400-01	.1980-01	.2850-01	.9130	.8866-03	.1277-02	.2100	1.189	532.8
135	67.500	.90000	793.00	.2690-01	.2220-01	.3200-01	.9130	.9932-03	.1433-02	.2100	1.362	533.5
135	78.000	.27000	794.00	.1250-01	.1030-01	.1480-01	.9130	.4604-03	.6605-03	.9800-01	.7080	530.8
135	78.000	.29000	795.00	.5640-01	.4640-01	.6720-01	.9130	.2075-02	.3007-02	.4340	2.687	535.7
135	78.000	.30000	796.00	.1142	.9290-01	.1375	.9130	.4155-02	.6148-02	.8300	5.037	544.3
135	78.000	.31000	797.00	.1608	.1293	.1961	.9130	.5780-02	.8767-02	1.098	6.633	554.0
135	78.000	.32000	798.00	.1798	.1439	.2205	.9130	.6435-02	.9861-02	1.199	7.189	557.7
135	79.000	.32500	799.00	.1763	.1410	.2163	.9130	.6305-02	.9672-02	1.172	7.046	558.1
135	78.000	.33000	800.00	.1780	.1426	.2181	.9130	.6377-02	.9754-02	1.192	7.170	557.6
135	78.000	.33500	801.00	.1670	.1495	.2296	.9130	.6683-02	.1027-01	1.239	7.448	558.5
135	78.000	.34000	802.00	.1966	.1571	.2415	.9130	.7027-02	.1080-01	1.302	7.822	558.7
135	78.000	.34500	803.00	.2026	.1619	.2489	.9130	.7239-02	.1113-01	1.340	8.075	558.8
135	78.000	.35000	804.00	.1979	.1588	.2421	.9130	.7099-02	.1082-01	1.336	8.059	555.9
135	78.000	.35500	805.00	.1790	.1440	.2181	.9130	.6440-02	.9753-02	1.227	7.415	553.4
135	78.000	.36000	806.00	.1827	.1477	.2213	.9130	.6606-02	.9897-02	1.286	7.808	549.3
135	78.000	.36500	807.00	.1297	.1052	.1566	.9130	.4706-02	.7003-02	.9290	5.661	546.7
135	78.000	.37000	808.00	.1042	.8490-01	.1252	.9130	.3798-02	.5598-02	.7650	4.684	542.6
135	78.000	.37500	809.00	.7930-01	.6480-01	.9490-01	.9130	.2899-02	.4244-02	.5920	3.631	539.8
135	78.000	.38000	810.00	.5980-01	.4910-01	.7130-01	.9130	.2193-02	.3188-02	.4550	2.812	536.5
135	78.000	.39000	811.00	.3730-01	.3070-01	.4430-01	.9130	.1373-02	.1981-02	.2900	1.799	533.0
135	78.000	.40000	812.00	.2630-01	.2170-01	.3120-01	.9130	.9724-03	.1395-02	.2080	1.292	530.2
115	90.000	.40000-0	985.00	.4826	.3841	.4697	.9553	.1719-01	.2102-01	3.122	20.18	559.2
115	90.000	.50000-01	986.00	.4041	.3231	.4005	.9518	.1446-01	.1792-01	2.672	17.20	556.1
115	90.000	.60000-01	987.00	.3438	.2692	.3468	.9484	.1205-01	.1552-01	2.057	13.38	570.1
115	90.000	.70000-01	988.00	.3188	.2506	.3275	.9451	.1121-01	.1465-01	1.941	12.91	567.7
115	90.000	.80000-01	989.00	.2741	.2164	.2864	.9420	.9684-02	.1281-01	1.703	11.96	564.9
115	90.000	.10000+00	990.00	.2238	.1788	.2406	.9361	.8000-02	.1077-01	1.473	9.565	556.6
115	90.000	.15000	991.00	.1238	.9930-01	.1420	.9239	.4443-02	.6356-02	.8320	6.085	553.7
135	90.000	.20000	813.00	.3140-01	.2590-01	.3720-01	.9133	.1157-02	.1665-02	.2450	1.792	532.5
135	90.000	.24000	814.00	.2490-01	.2060-01	.2960-01	.9130	.9192-03	.1324-02	.1950	1.585	532.4
135	90.000	.27000	816.00	.1510-01	.1250-01	.1800-01	.9130	.5587-03	.8028-03	.1190	.8520	531.1
135	90.000	.29000	817.00	.1452	.1171	.1766	.9130	.5237-02	.7896-02	1.006	6.239	551.8
135	90.000	.30000	818.00	.2712	.2108	.3442	.9130	.9426-02	.1539-01	1.574	9.478	577.0
135	90.000	.31000	819.00	.2985	.2331	.3767	.9130	.1042-01	.1684-01	1.771	10.52	574.1
135	90.000	.32000	820.00	.2843	.2226	.3575	.9130	.9954-02	.1598-01	1.708	10.19	572.4
135	90.000	.32500	821.00	.2797	.2192	.3515	.9130	.9801-02	.1572-01	1.685	10.03	572.0
135	90.000	.33000	822.00	.2951	.2309	.3714	.9130	.1033-01	.1661-01	1.767	10.54	572.9
135	90.000	.33500	823.00	.3492	.2708	.4444	.9130	.1211-01	.1987-01	2.007	11.98	578.3
135	90.000	.34000	824.00	.4134	.3155	.5364	.9130	.1411-01	.2398-01	2.218	13.11	586.8
135	90.000	.34500	825.00	.4887	.3656	.6508	.9130	.1635-01	.2910-01	2.415	14.24	596.3
135	90.000	.35000	826.00	.5730	.4142	.7999	.9130	.1852-01	.3577-01	2.487	14.57	609.7
135	90.000	.36000	828.00	.3687	.2828	.4754	.9130	.1265-01	.2126-01	2.021	11.96	584.2
135	90.000	.36500	829.00	.2357	.1888	.2888	.9130	.8441-02	.1291-01	1.578	9.492	557.0

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(IRVTF24)

(IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
135	90.000	.37000	830.00	.1225	.1000+00	.1470	.9130	.4471-02	.6573-02	.9050	5.50:	541.6
135	90.000	.37500	831.00	.8580-01	.7050-01	.1023	.9130	.3153-02	.4573-02	.6570	4.029	535.8
135	90.000	.38000	832.00	.6530-01	.5370-01	.7770-01	.9130	.2400-02	.3472-02	.5030	3.084	534.4
135	90.000	.39000	833.00	.6670-01	.5470-01	.7970-01	.9130	.2444-02	.3564-02	.5030	3.115	538.1
135	90.000	.40000	834.00	.6000-01	.4920-01	.7170-01	.9130	.2201-02	.3205-02	.4550	2.824	537.4
135	90.000	.50000	835.00	.2920-01	.2400-01	.3480-01	.9130	.1073-02	.1554-02	.2240	1.425	535.1
135	90.000	.60000	836.00	.3450-01	.2830-01	.4120-01	.9130	.1264-02	.1840-02	.2610	1.747	537.4
135	90.000	.70000	837.00	.6280-01	.5130-01	.7520-01	.9130	.2293-02	.3363-02	.4660	3.294	540.6
135	90.000	.80000	838.00	.7520-01	.6170-01	.8980-01	.9130	.2757-02	.4017-02	.5690	3.551	537.7
135	90.000	.90000	839.00	.3190-01	.2610-01	.3810-01	.9130	.1166-02	.1703-02	.2390	1.536	538.7
135	112.50	.23000	840.00	.4290-01	.3520-01	.5090-01	.9139	.1576-02	.2274-02	.3290	2.664	535.4
135	112.50	.25000	841.00	.2490-01	.2050-01	.2960-01	.9133	.9166-03	.1324-02	.1920	1.498	534.4
135	112.50	.30000	843.00	.8410-01	.6870-01	.1006	.9133	.3072-02	.4500-02	.6240	3.724	540.8
135	112.50	.33000	844.00	.1529	.1232	.1858	.9133	.5509-02	.8306-02	1.055	6.342	552.5
135	112.50	.35000	845.00	.2206	.1754	.2719	.9133	.7845-02	.1216-01	1.426	8.672	562.2
135	112.50	.37000	846.00	.1846	.1480	.2256	.9133	.6619-02	.1009-01	1.242	7.614	556.4
135	112.50	.40000	847.00	.8440-01	.6910-01	.1007	.9133	.3092-02	.4502-02	.6370	3.985	538.1
135	112.50	.45000	848.00	.5330-01	.4380-01	.6340-01	.9133	.1951-02	.2833-02	.4100	2.596	534.6
135	112.50	.50000	849.00	.5630-01	.4630-01	.6700-01	.9133	.2069-02	.2997-02	.4310	2.786	535.7
135	112.50	.55000	850.00	.4680-01	.3840-01	.5560-01	.9133	.1718-02	.2486-02	.3590	2.413	535.0
135	112.50	.60000	851.00	.6330-01	.5180-01	.7550-01	.9133	.2318-02	.3378-02	.4760	3.205	538.5
135	112.50	.65000	852.00	.8710-01	.7090-01	.1046	.9133	.3172-02	.4678-02	.6350	4.329	543.7
135	112.50	.70000	853.00	.1133	.9200-01	.1366	.9133	.4112-02	.6109-02	.8110	5.693	546.7
135	112.50	.75000	854.00	.8620-01	.7040-01	.1031	.9133	.3147-02	.4611-02	.6390	4.157	540.9
135	112.50	.80000	855.00	.8920-01	.7290-01	.1066	.9133	.3259-02	.4768-02	.6640	4.333	540.3
135	112.50	.90000	856.00	.1095	.8920-01	.1315	.9133	.3990-02	.5879-02	.8010	5.201	543.3
135	125.40	.84000	857.00	.6770-01	.5530-01	.8100-01	.9136	.2471-02	.3622-02	.5000	3.095	541.8
135	125.40	.85000	858.00	.7170-01	.5860-01	.8570-01	.9136	.2618-02	.3832-02	.5310	3.310	541.2
135	125.40	.86000	859.00	.5880-01	.4820-01	.7000-01	.9136	.2156-02	.3132-02	.4450	2.800	537.8
135	125.40	.87000	860.00	.5630-01	.4620-01	.6690-01	.9136	.2067-02	.2992-02	.4290	2.713	536.2
135	125.40	.89000	861.00	.5890-01	.4830-01	.7010-01	.9136	.2159-02	.3133-02	.4460	2.818	537.3
135	125.40	.89000	862.00	.6620-01	.5410 01	.7910-01	.9136	.2420-02	.3539-02	.4920	3.117	540.8
135	125.40	.90000	863.00	.7900-01	.6430-01	.9430-01	.9136	.2877-02	.4218-02	.5820	3.707	541.8
135	125.40	.91000	864.00	.9080-01	.7390-01	.1088	.9136	.3305-02	.4866-02	.6620	4.823	543.6
135	125.40	.92600	865.00	.1474	.1184	.1792	.9136	.5295-02	.8011-02	1.004	7.245	554.4
135	129.30	.80000	866.00	.7320-01	.6010-01	.8710-01	.9137	.2685-02	.3894-02	.5550	3.506	537.2
135	129.30	.81000	867.00	.6060-01	.4970-01	.7200-01	.9137	.2220-02	.3220-02	.4590	2.883	537.2
135	129.30	.82000	868.00	.5620-01	.4610-01	.6670-01	.9137	.2061-02	.2984-02	.4280	2.688	536.4
135	129.30	.83000	869.00	.6160-01	.5040-01	.7340-01	.9137	.2254-02	.3282-02	.4620	2.906	539.1
135	135.00	.40000-01	870.00	.5031	.4013	.4756	.9614	.1794-01	.2127-01	3.300	21.08	560.1
135	135.00	.50000-01	871.00	.4326	.3478	.4167	.9578	.1555-01	.1863-01	2.949	18.78	554.3
135	135.00	.60000-01	872.00	.3815	.3075	.3824	.9544	.1375-01	.1710-01	2.381	15.63	570.8
135	135.00	.70000-01	873.00	.3599	.2830	.3571	.9510	.1265-01	.1597-01	2.224	14.97	568.3

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
135	135.00	.10000+00	875.00	.2700	.2170	.2815	.9416	.9704-02	.1259-01	1.841	12.03	554.3
135	135.00	.15000	876.00	.1574	.1268	.1759	.9283	.5670-02	.7864-02	1.083	7.904	552.9
135	135.00	.20000	877.00	.7810-01	.6400-01	.9080-01	.9186	.2861-02	.4060-02	.5870	3.971	538.9
135	135.00	.35000	878.00	.8100-01	.6630-01	.9640-01	.9139	.2964-02	.4309-02	.6080	3.797	538.7
135	135.00	.40000	879.00	.5320-01	.4380-01	.6300-01	.9139	.1957-02	.2819-02	.4100	2.614	534.5
135	135.00	.50000	880.00	.1283	.1037	.1550	.9139	.4636-02	.6930-02	.8970	6.148	550.5
135	135.00	.55000	881.00	.9660-01	.7840-01	.1159	.9139	.3506-02	.5184-02	.6940	4.624	546.1
135	135.00	.60000	882.00	.8130-01	.6640-01	.9700-01	.9139	.2969-02	.4335-02	.6030	4.068	540.7
135	135.00	.65000	883.00	.8380-01	.6830-01	.1003	.9139	.3053-02	.4484-02	.6130	4.191	543.2
135	135.00	.70000	884.00	.7320-01	.5980-01	.8740-01	.9139	.2673-02	.3907-02	.5420	3.866	541.1
135	135.00	.75000	885.00	.6180-01	.5070-01	.7340-01	.9139	.2266-02	.3282-02	.4630	2.971	537.0
135	135.00	.84000	887.00	.7690-01	.6270-01	.9190-01	.9139	.2802-02	.4108-02	.5640	3.555	542.5
135	135.00	.85000	888.00	.6980-01	.5620-01	.8460-01	.9139	.2514-02	.3786-02	.4780	3.021	550.9
115	135.00	.86000	889.00	.5330-01	.4320-01	.6420-01	.9139	.1931-02	.2873-02	.3760	2.376	546.2
115	135.00	.87000	890.00	.5970-01	.4630-01	.7190-01	.9139	.2163-02	.3219-02	.4210	2.674	546.4
115	135.00	.88000	891.00	.5890-01	.4760-01	.7110-01	.9139	.2129-02	.3180-02	.4110	2.626	547.8
115	135.00	.89000	892.00	.7000-01	.5640-01	.8460-01	.9139	.2525-02	.3785-02	.4840	3.146	549.1
115	135.00	.90000	893.00	.7800-01	.6300-01	.9430-01	.9139	.2818-02	.4219-02	.5410	3.560	548.7
115	135.00	.91000	894.00	.6170-01	.4980-01	.7450-01	.9139	.2227-02	.3335-02	.4280	3.116	548.8
115	135.00	.92600	895.00	.6970-01	.5580-01	.8500-01	.9139	.2495-02	.3805-02	.4620	3.347	555.5
115	135.00	.95000	896.00	.5540-01	.4500-01	.6650-01	.9139	.2013-02	.2974-02	.3970	2.873	543.5
115	142.30	.42000	897.00	.1109	.8910-01	.1346	.9141	.3987-02	.6021-02	.7510	4.818	552.4
115	142.30	.43500	898.00	.1592	.1270	.1947	.9141	.5682-02	.8711-02	1.041	6.467	557.7
115	142.30	.45000	899.00	.1160	.9300-01	.1410	.9141	.4160-02	.6309-02	.7780	5.070	553.9
115	142.30	.50000	900.00	.1613	.1281	.1982	.9141	.5733-02	.8871-02	1.032	6.824	560.9
115	142.30	.60000	901.00	.1007	.8090-01	.1223	.9141	.3619-02	.5474-02	.6800	4.499	553.0
115	142.30	.70000	902.00	.8280-01	.6680-01	.1000+00	.9141	.2988-02	.4474-02	.5730	3.903	549.2
115	142.30	.80000	903.00	.7510-01	.5930-01	.8780-01	.9141	.2654-02	.3930-02	.5210	3.313	544.7
115	142.30	.87000	904.00	.7050-01	.5690-01	.8520-01	.9141	.2546-02	.3814-02	.4870	3.075	549.4
115	154.98	.42000	905.00	.1556	.1237	.1907	.9142	.5535-02	.8533-02	1.001	6.409	560.0
115	154.98	.43500	906.00	.1379	.1103	.1680	.9142	.4934-02	.7517-02	.9120	5.889	556.0
115	154.98	.45000	907.00	.1107	.8910-01	.1340	.9142	.3986-02	.5996-02	.7550	4.917	551.3
115	154.98	.50000	908.00	.1367	.1087	.1676	.9142	.4862-02	.7500-02	.8780	6.238	560.3
115	154.98	.93500	913.00	.2329	.1789	.2970	.9142	.8007-02	.1329-01	1.279	9.143	581.0
115	154.98	.94500	914.00	.1750	.1358	.2205	.9142	.6074-02	.9867-02	1.004	7.124	575.6
115	157.50	.80000-01	919.00	.3342	.2623	.3350	.9495	.1174-01	.1493-01	2.022	13.65	568.6
115	157.50	.20000	922.00	.8540-01	.6900-01	.9980-01	.9195	.3087-02	.4467-02	.5960	3.966	547.9
115	157.50	.42000	923.00	.1374	.1102	.1666	.9144	.4933-02	.7454-02	.9250	6.016	553.3
115	157.50	.43500	924.00	.1740	.1379	.2138	.9144	.6170-02	.9568-02	1.102	7.153	562.3
115	157.50	.45000	925.00	.1809	.1430	.2230	.9144	.6399-02	.9979-02	1.131	7.403	564.1
115	157.50	.85000	926.00	.4850-01	.3930-01	.5820-01	.9144	.1757-02	.2602-02	.3430	2.222	545.5
115	157.50	.86000	927.00	.8220-01	.6660-01	.9870-01	.9144	.2981-02	.4418-02	.5810	3.772	545.5
115	157.50	.87000	928.00	.7650-01	.6170-01	.9210-01	.9144	.2763-02	.4120-02	.5320	3.457	548.3

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F24)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
115	157.50	.88000	929.00	.1068	.8590-01	.1292	.9144	.3842-02	.5779-02	.7270	4.747	551.6
115	157.50	.89000	930.00	.1193	.9550-01	.1451	.9144	.4271-02	.6492-02	.7920	5.189	555.4
115	157.50	.90000	931.00	.1078	.8610-01	.1314	.9144	.3854-02	.5879-02	.7100	4.761	555.7
115	157.50	.91000	932.00	.5470-01	.4330-01	.6720-01	.9144	.1939-02	.3006-02	.3470	2.517	562.1
115	157.50	.92600	933.00	.1493	.1162	.1871	.9144	.5241-02	.8373-02	.8710	6.267	573.4
115	163.12	.41500	934.00	.1080	.8710-01	.1304	.9145	.3895-02	.5834-02	.7430	4.810	550.1
115	163.12	.42000	935.00	.1295	.1037	.1573	.9145	.4641-02	.7038-02	.8540	5.627	554.8
115	163.12	.43000	937.00	.2109	.1654	.2619	.9145	.7403-02	.1172-01	1.273	8.264	568.8
115	163.12	.44000	938.00	.2662	.2224	.3593	.9145	.9954-02	.1608-01	1.556	10.68	574.5
115	163.12	.44500	939.00	.2488	.1933	.3126	.9145	.8550-02	.1399-01	1.436	9.404	574.8
115	163.12	.45000	940.00	.2241	.1752	.2796	.9145	.7841-02	.1251-01	1.331	8.733	571.1
115	163.12	.50000	941.00	.1150	.9210-01	.1397	.9145	.4121-02	.6249-02	.7670	5.179	554.8
115	163.12	.60000	942.00	.1175	.9450-01	.1422	.9145	.4227-02	.6362-02	.7980	5.134	552.0
115	163.12	.70000	943.00	.8580-01	.6910-01	.1031	.9145	.3107-02	.4615-02	.6020	4.135	547.0
115	163.12	.80000	944.00	.5970-01	.4840-01	.7170-01	.9145	.2166-02	.3206-02	.4230	2.760	545.6
115	168.00	.35000	945.00	.5610-01	.4560-01	.6710-01	.9145	.2041-02	.3000-02	.4040	2.565	542.9
115	168.00	.36000	946.00	.5220-01	.4250-01	.6240-01	.9145	.1900-02	.2791-02	.3770	2.400	542.5
115	168.00	.37000	947.00	.5360-01	.4350-01	.6400-01	.9145	.1948-02	.2866-02	.3850	2.458	543.2
115	168.00	.37500	948.00	.5420-01	.4400-01	.6480-01	.9145	.1967-02	.2900-02	.3870	2.473	544.0
115	168.00	.38500	950.00	.7800-01	.6320-01	.9350-01	.9145	.2827-02	.4185-02	.5520	3.560	545.7
115	168.00	.39000	951.00	.1034	.8810-01	.1321	.9145	.3941-02	.5910-02	.7490	4.847	550.8
115	168.00	.39500	952.00	.1114	.8970-01	.1345	.9145	.4013-02	.6016-02	.7630	4.870	550.7
115	168.00	.40000	953.00	.1024	.8250-01	.1235	.9145	.3693-02	.5526-02	.7050	4.575	550.1
115	168.00	.40500	954.00	.1040	.8380-01	.1254	.9145	.3750-02	.5612-02	.7150	4.659	550.1
115	168.00	.41000	955.00	.1102	.8860-01	.1333	.9145	.3984-02	.5963-02	.7480	4.870	552.0
115	168.00	.41500	956.00	.1212	.9690-01	.1475	.9145	.4337-02	.6598-02	.8010	5.219	556.1
115	168.00	.42000	957.00	.1533	.1220	.1875	.9145	.5458-02	.8388-02	.9890	6.451	559.6
115	168.00	.42500	958.00	.1621	.1288	.1986	.9145	.5761-02	.8887-02	1.037	6.759	560.8
115	168.00	.43000	959.00	.2730	.2095	.3476	.9145	.9376-02	.1555-01	1.495	9.612	581.4
115	168.00	.44000	960.00	.2898	.2242	.3657	.9145	.1003-01	.1636-01	1.641	10.61	577.2
115	168.00	.44500	961.00	.2554	.2011	.3159	.9145	.8937-02	.1414-01	1.567	10.18	566.7
115	168.00	.45000	962.00	.2022	.1603	.2481	.9145	.7174-02	.1110-01	1.284	8.410	561.9
115	168.00	.45500	963.00	.1829	.1447	.2250	.9145	.6476-02	.1007-01	1.150	7.527	563.3
115	168.00	.46000	964.00	.1647	.1299	.2034	.9145	.5812-02	.9102-02	1.018	6.697	565.7
115	168.00	.47000	965.00	.1415	.1122	.1736	.9145	.5022-02	.7768-02	.8890	5.947	551.7
115	168.00	.48000	966.00	.1222	.9740-01	.1490	.9145	.4360-02	.6669-02	.7970	5.328	568.0
115	168.00	.49000	967.00	.1019	.8220-01	.1228	.9145	.3679-02	.5495-02	.7050	4.733	549.2
115	168.00	.85000	968.00	.4710-01	.3800-01	.5560-01	.9145	.1702-02	.2534-02	.3280	2.127	548.0
115	168.00	.86000	969.00	.6100-01	.4920-01	.7360-01	.9145	.2200-02	.3292-02	.4200	2.728	548.9
115	168.00	.87000	970.00	.7570-01	.6060-01	.9170-01	.9145	.2719-02	.4102-02	.5100	3.320	553.1
115	168.00	.88000	971.00	.1553	.1276	.1863	.9145	.6604-02	.1012-01	1.203	7.822	558.7
115	168.00	.89000	972.00	.1558	.1447	.2229	.9145	.6474-02	.9974-02	1.168	7.705	560.4
115	168.00	.90000	973.00	.1333	.1061	.1635	.9145	.4748-02	.7317-02	.8560	5.784	560.5

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F24)

IH41(AEDC V41A-A4A) O T S (CONFIC 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
115	168.00	.91000	974.00	.8800-01	.6950-01	.1085	.9145	.3111-02	.4855-02	.5480	3.964	564.6
115	168.00	.92600	975.00	.8360-01	.6440-01	.1060	.9145	.2880-02	.4743-02	.4640	3.311	579.6
115	169.00	.95000	976.00	.6320-01	.5110-01	.7590-01	.9145	.2288-02	.3396-02	.4440	3.198	546.7
115	180.00	.20000-01	982.00	.3469	.2798	.3178	.9691	.1252-01	.1422-01	2.401	16.67	549.1
115	180.00	.25000-01	983.00	.7092	.5540	.6472	.9671	.2479-01	.2996-01	4.199	28.65	571.5
115	180.00	.30000-01	984.00	.7230	.5628	.6646	.9654	.2518-01	.2974-01	4.209	28.51	573.7
133	180.00	.40000-01	600.00	.4886	.3863	.4551	.9639	.1729-01	.2037-01	3.067	19.54	565.2
133	180.00	.50000-01	601.00	.4242	.3373	.4028	.9603	.1510-01	.1803-01	2.736	17.52	561.3
133	180.00	.60000-01	602.00	.4110	.3163	.3954	.9569	.1427-01	.1769-01	2.361	15.49	577.1
133	180.00	.70000-01	603.00	.3631	.2754	.3463	.9535	.1237-01	.1550-01	2.080	14.00	573.8
133	180.00	.80000-01	604.00	.3309	.2606	.3306	.9502	.1164-01	.1479-01	2.016	12.97	569.3
133	180.00	.90000-01	605.00	.2480	.1963	.2563	.9439	.8785-02	.1147-01	1.564	11.12	564.5
133	180.00	.10000+00	606.00	.1514	.1202	.1687	.9302	.5381-02	.7550-02	.9700	7.000	562.2
133	180.00	.11000	606.00	.8210-01	.6630-01	.9580-01	.9199	.2969-02	.4290-02	.5730	3.736	549.4
133	180.00	.12000	607.00	.6590-01	.5330-01	.7740-01	.9183	.2384-02	.3462-02	.4650	3.210	547.6
133	180.00	.13000	608.00	.5700-01	.4620-01	.6750-01	.9169	.2066-02	.3020-02	.4030	3.001	547.2
133	180.00	.14000	609.00	.5320-01	.4320-01	.6980-01	.9146	.2110-02	.3123-02	.4130	2.825	547.0
133	180.00	.15000	610.00	.4810-01	.3740-01	.5520-01	.9146	.1674-02	.2471-02	.3290	2.195	545.8
133	180.00	.16000	611.00	.4650-01	.3690-01	.5460-01	.9146	.1653-02	.2442-02	.3250	2.183	546.2
133	180.00	.17000	612.00	.4850-01	.3860-01	.5710-01	.9146	.1728-02	.2556-02	.3380	2.275	546.7
133	180.00	.18000	613.00	.4630-01	.3670-01	.5440-01	.9146	.1641-02	.2434-02	.3200	2.148	547.8
133	180.00	.19000	614.00	.4460-01	.3520-01	.6630-01	.9146	.1996-02	.2970-02	.3850	2.594	549.0
133	180.00	.20000	615.00	.5520-01	.4360-01	.6630-01	.9146	.2626-02	.3784-02	.4820	3.233	551.7
133	180.00	.21000	616.00	.7010-01	.5540-01	.8450-01	.9146	.4079-02	.6157-02	.7670	5.116	554.6
133	180.00	.22000	617.00	.1168	.9110-01	.1376	.9146	.4420-02	.6080-02	.8280	5.562	555.1
133	180.00	.23000	618.00	.1231	.9870-01	.1492	.9146	.4065-02	.6148-02	.7610	5.078	555.3
133	180.00	.24000	619.00	.1143	.9080-01	.1374	.9146	.4126-02	.6290-02	.7610	5.085	558.2
133	180.00	.25000	620.00	.1164	.9220-01	.1405	.9146	.5223-02	.8076-02	.9380	6.250	553.0
133	180.00	.26000	621.00	.1491	.1167	.1804	.9146	.6217-02	.9755-02	1.087	7.211	567.7
133	180.00	.27000	622.00	.1783	.1389	.2180	.9146	.8498-02	.1367-01	1.424	9.408	575.3
133	180.00	.28000	623.00	.2439	.1899	.3055	.9146	.1004-01	.1643-01	1.639	10.84	579.3
133	180.00	.29000	624.00	.2875	.2254	.3671	.9146	.1100-01	.1898-01	1.661	10.92	591.6
133	180.00	.30000	625.00	.3150	.2458	.4240	.9146	.1083-01	.1875-01	1.625	10.78	592.4
133	180.00	.31000	626.00	.3714	.2919	.4189	.9146	.9626-02	.1612-01	1.515	10.08	585.1
133	180.00	.32000	627.00	.2751	.2151	.3602	.9146	.7611-02	.1222-01	1.279	8.689	574.5
133	180.00	.33000	628.00	.2814	.2200	.3602	.9146	.7611-02	.1222-01	1.279	8.689	574.5
133	180.00	.34000	629.00	.2183	.1700	.2731	.9146	.5958-02	.9294-02	1.053	7.011	565.8
133	180.00	.46000	630.00	.1685	.1331	.2076	.9146	.3452-02	.5196-02	.6520	4.369	563.6
133	180.00	.47000	631.00	.9600-01	.7710-01	.1161	.9146	.2230-02	.3327-02	.4290	2.895	550.2
133	180.00	.48000	632.00	.6170-01	.4980-01	.7430-01	.9146	.1754-02	.2637-02	.3320	2.258	553.2
133	180.00	.49000	633.00	.4870-01	.3920-01	.5893-01	.9146	.4265-02	.6647-02	.7550	5.233	565.5
133	180.00	.50000	634.00	.1206	.9530-01	.1485	.9146	.3379-02	.5139-02	.6260	4.135	557.3
133	180.00	.55000	635.00	.9440-01	.7550-01	.1148	.9146	.4597-02	.6984-02	.8530	5.471	557.0
133	180.00	.60000	636.00	.1284	.1027	.1561	.9146	.3055-02	.4607-02	.5750	3.705	554.3
133	180.00	.65000	637.00	.8500-01	.6830-01	.1029	.9146					

DATE 03 JUN 76 . AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F24)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
133	180.00	.70000	638.00	.7420-01	.5980-01	.8950-01	.9146	.2674-02	.4006-02	.5100	3.483	551.8
133	180.00	.75000	639.00	.6770-01	.5470-01	.8150-01	.9146	.2448-02	.3649-02	.4720	3.037	549.9
133	180.00	.80000	640.00	.7130-01	.5750-01	.8580-01	.9146	.2574-02	.3840-02	.4950	3.097	550.2
133	180.00	.85000	641.00	.6840-01	.5510-01	.8270-01	.9146	.2464-02	.3701-02	.4680	2.948	552.7
133	180.00	.86000	642.00	.6890-01	.5530-01	.8340-01	.9146	.2476-02	.3731-02	.4670	2.982	554.0
133	180.00	.87000	643.00	.7190-01	.5760-01	.8740-01	.9146	.2576-02	.3910-02	.4790	3.072	556.7
133	180.00	.88000	644.00	.1520	.1207	.1862	.9146	.5401-02	.8332-02	.9740	6.286	562.2
133	180.00	.89000	645.00	.1416	.1123	.1737	.9146	.5027-02	.7773-02	.9020	5.891	563.0
133	180.00	.90000	646.00	.1054	.8360-01	.1293	.9146	.3743-02	.5787-02	.6720	4.481	563.0
133	180.00	.92600	648.00	.8070-01	.6050-01	.1057	.9146	.2709-02	.4733-02	.4020	2.863	594.2
133	180.00	.95000	649.00	.3320-01	.2700-01	.3970-01	.9146	.1208-02	.1779-02	.2390	1.725	545.0
133	191.25	.35000	650.00	.4540-01	.3680-01	.5440-01	.9145	.1647-02	.2435-02	.3230	2.174	546.3
133	191.25	.36000	651.00	.4970-01	.4030-01	.5960-01	.9145	.1805-02	.2668-02	.3540	2.387	546.4
133	191.25	.37000	652.00	.5970-01	.4830-01	.7.70-01	.9145	.2160-02	.3210-02	.4190	2.816	548.5
133	191.25	.37500	653.00	.7140-01	.5760-01	.8590-01	.9145	.2577-02	.3847-02	.4960	3.335	550.2
133	191.25	.38000	654.00	.6900-01	.5570-01	.8310-01	.9145	.2493-02	.3718-02	.4800	3.233	549.9
133	191.25	.38500	655.00	.7510-01	.6050-01	.9050-01	.9145	.2710-02	.4051-02	.5190	3.494	550.9
133	191.25	.39000	656.00	.8490-01	.6830-01	.1026	.9145	.3055-02	.4591-02	.5790	3.895	552.9
133	191.25	.39500	657.00	.9920-01	.7970-01	.1199	.9145	.3568-02	.5368-02	.6750	4.537	553.3
133	191.25	.40000	658.00	.1048	.8410-01	.1269	.9145	.3762-02	.5681-02	.7070	4.761	554.7
133	191.25	.40500	659.00	.1117	.8940-01	.1356	.9145	.4001-02	.6069-02	.7450	5.016	556.3
133	191.25	.41000	660.00	.1192	.9520-01	.1452	.9145	.4261-02	.6499-02	.7850	5.264	558.2
133	191.25	.41500	661.00	.1514	.1205	.1851	.9145	.5394-02	.8285-02	.9810	6.545	560.7
133	191.25	.42000	662.00	.2120	.1668	.2623	.9145	.7466-02	.1174-01	1.301	8.680	568.2
133	191.25	.42500	663.00	.2616	.2042	.3269	.9145	.9138-02	.1463-01	1.545	10.31	573.5
133	191.25	.43000	664.00	.3654	.2770	.4723	.9145	.1240-01	.2114-01	1.992	12.71	589.1
133	191.25	.44000	665.00	.3436	.2622	.4405	.9145	.1174-01	.1971-01	1.840	12.24	585.7
133	191.25	.45000	666.00	.2002	.1578	.2472	.9145	.7064-02	.1106-01	1.240	8.334	567.0
133	191.25	.45500	667.00	.1677	.1324	.2068	.9145	.5928-02	.9254-02	1.046	7.029	566.0
133	191.25	.46000	668.00	.1629	.1282	.2015	.9145	.5738-02	.9018-02	1.001	6.739	568.1
133	191.25	.47000	669.00	.1474	.1164	.1817	.9145	.5212-02	.8134-02	.9210	6.222	565.9
133	191.25	.48000	670.00	.1509	.1195	.1855	.9145	.5348-02	.8302-02	.9540	6.451	564.2
133	191.25	.49000	671.00	.1445	.1147	.1772	.9145	.5134-02	.7929-02	.9240	6.238	562.5
133	191.25	.50000	672.00	.1516	.1196	.1869	.9145	.5355-02	.8367-02	.9440	6.498	566.3
133	191.25	.60000	673.00	.1087	.8760-01	.1311	.9145	.3823-02	.5869-02	.7510	4.803	551.1
133	191.25	.70000	674.00	.1047	.8390-01	.1271	.9145	.3753-02	.5687-02	.7000	4.743	555.9
133	191.25	.85000	676.00	.7040-01	.5670-01	.8490-01	.9145	.2538-02	.3900-02	.4850	3.057	551.5
133	191.25	.86000	677.00	.6510-01	.4910-01	.6770-01	.9145	.2020-02	.3032-02	.3840	2.447	552.4
133	191.25	.87000	678.00	.5200-01	.4180-01	.6300-01	.9145	.1873-02	.2813-02	.3520	2.265	554.0
133	191.25	.88000	679.00	.7680-01	.6140-01	.9340-01	.9145	.2748-02	.4180-02	.5090	3.302	557.3
133	191.25	.89000	680.00	.8830-01	.6.30-01	.1066	.9145	.3084-02	.4727-02	.5630	3.703	560.0
133	191.25	.90000	681.00	.9340-01	.7400-01	.1148	.9145	.3310-02	.5136-02	.6210	3.947	554.1
133	191.25	.91000	682.00	.6810-01	.5700-01	.8170-01	.9145	.2328-02	.3658-02	.4060	2.931	568.1

(RV7F24)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
133	191.25	.92600	683.00	.8270-01	.6310-01	.1060	.9145	.2826-02	.4744-02	.4440	3.195	585.5
133	191.25	.95000	684.00	.4400-01	.3570-01	.5260-01	.9145	.1598-02	.2355-02	.3160	2.282	545.1
133	197.00	.33000	685.00	.4670-01	.3790-01	.5590-01	.9145	.1698-02	.2501-02	.3360	2.281	544.7
133	197.00	.34000	686.00	.4210-01	.3420-01	.5040-01	.9145	.1529-02	.2255-02	.3020	2.030	545.2
133	197.00	.35000	687.00	.5130-01	.4160-01	.6150-01	.9145	.1862-02	.2750-02	.3660	2.461	546.0
133	197.00	.36000	688.00	.6220-01	.5030-01	.7480-01	.9145	.2251-02	.3347-02	.4370	2.932	548.6
133	197.00	.37000	689.00	.8230-01	.6680-01	.1001	.9145	.2986-02	.4481-02	.5780	3.819	551.9
133	197.00	.37500	690.00	.8910-01	.7150-01	.1080	.9145	.3201-02	.4836-02	.6020	4.040	554.6
133	197.00	.50000	691.00	.2143	.1649	.2724	.9145	.7379-02	.1219-01	1.187	7.941	581.7
133	197.00	.60000	692.00	.8950-01	.7220-01	.1080	.9145	.3230-02	.4834-02	.6160	3.977	551.2
133	197.00	.70000	693.00	.1531	.1205	.1894	.9145	.5393-02	.8479-02	.9410	6.316	569.0
133	197.00	.80000	694.00	.5360-01	.4330-01	.6430-01	.9145	.1938-02	.2879-02	.3770	2.388	548.1
133	197.00	.87000	695.00	.5120-01	.4.10-01	.6200-01	.9145	.1841-02	.2777-02	.3670	2.303	554.1
133	197.00	.92500	696.00	.1259	.9600-01	.1617	.9145	.4297-02	.7236-02	.8720	4.922	595.2
135	203.80	.15000-01	697.00	.1963	.1580	.2350	.9142	.7074-02	.1052-01	1.376	9.440	548.1
134	209.80	.30000-01	698.00	.6433	.5135	.6037	.9543	.2238-01	.2701-01	4.191	27.88	585.7
134	209.80	.50000-01	699.00	.5331	.4328	.5157	.9542	.1936-01	.2307-01	3.657	23.74	555.9
134	209.80	.70000-01	700.00	.4734	.3693	.4672	.9524	.1653-01	.2090-01	3.709	18.85	575.4
134	209.80	.10000+00	701.00	.3614	.2865	.3754	.9429	.1262-01	.1680-01	2.302	14.54	585.1
134	209.80	.15000	702.00	.1664	.1337	.1850	.9294	.5983-02	.8278-02	1.135	8.084	555.0
134	209.80	.20000	703.00	.8830-01	.7070-01	.9990-01	.9193	.3185-02	.4459-02	.5625	4.358	538.3
134	209.80	.30000	704.00	.5050-01	.4140-01	.5980-01	.9143	.1952-02	.2578-02	.3330	2.728	537.7
134	209.80	.45000	705.00	.6.80-01	.5030-01	.7270-01	.9143	.2252-02	.3253-02	.4550	3.215	537.1
134	209.80	.57500	706.00	.9600-01	.6030-01	.1188	.9143	.3503-02	.5314-02	.7080	4.992	547.6
134	209.80	.65000	707.00	.938	.1541	.2375	.9143	.6995-02	.1063-01	1.384	8.819	562.9
134	209.80	.80000	708.00	.1100	.8970-01	.1314	.9143	.4011-02	.5877-02	.8000	5.189	543.5
134	209.80	.87500	709.00	.8240-01	.6730-01	.9820-01	.9143	.3011-02	.4393-02	.5920	3.909	541.5
134	209.80	.92500	710.00	.3720-01	.3020-01	.4390-01	.9143	.1376-02	.1952-02	.2640	1.847	531.2
135	209.80	.97500	711.00	.4830-01	.3950-01	.5660-01	.9143	.1788-02	.2533-02	.3420	2.351	533.1
134	209.80	.99500	712.00	.7140-01	.5710-01	.8690-01	.9143	.2556-02	.3893-02	.4750	3.435	558.6
134	209.70	.15000-01	713.00	.2572	.2107	.3127	.9141	.9663-02	.1399-01	1.992	13.78	538.4
134	209.70	.30000-01	714.00	.6210	.5043	.5933	.9636	.2356-01	.2654-01	4.180	27.62	583.9
134	209.70	.50000-01	715.00	.4108	.3364	.4727	.9595	.1774-01	.2115-01	3.333	22.16	553.4
134	209.70	.70000-01	716.00	.5400	.4198	.5913	.9517	.1978-01	.2422-01	3.810	20.16	584.5
134	209.70	.10000+00	717.00	.3582	.2816	.3665	.9422	.1280-01	.1640-01	2.339	15.09	559.0
134	209.70	.15000	718.00	.1662	.1332	.1857	.9289	.5959-02	.8307-02	1.117	8.134	557.2
134	217.70	.20000	719.00	.8970-01	.7360-01	.1039	.9189	.3282-02	.4651-02	.6300	4.507	536.1
134	217.70	.30000	720.00	.6500-01	.5300-01	.7740-01	.9141	.2374-02	.3454-02	.4820	3.450	541.5
134	217.70	.35000	721.00	.7390-01	.6040-01	.8810-01	.9141	.2704-02	.3940-02	.5510	3.832	540.8
134	217.70	.37500	722.00	.7670-01	.6270-01	.9140-01	.9141	.2807-02	.4089-02	.5730	3.981	540.7
134	217.70	.50000	723.00	.1693	.1357	.2060	.9141	.6072-02	.9217-02	1.139	7.825	557.2
134	217.70	.60000	724.00	.1016	.8290-01	.1212	.9141	.3709-02	.5423-02	.7510	4.809	542.3
134	217.70	.70000	725.00	.7310-01	.6000-01	.8660-01	.9141	.2685-02	.3876-02	.5600	3.576	536.4

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F24)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
134	217.70	.80000	726.00	.3700-01	.3050-01	.4350-01	.9141	.1367-02	.1948-02	.2930	1.858	530.2
134	217.70	.87000	727.00	.5690-01	.4670-01	.6750-01	.9141	.2091-02	.3020-02	.4350	2.796	536.7
134	217.70	.92600	728.00	.7590-01	.6130-01	.9160-01	.9141	.2744-02	.4099-02	.5310	3.854	551.1

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = -5.000 BETA = -3.000 GRIT = 4.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
183	4.520	5.053	-5.010	3.000	31.00	97.10	.3270	665.0	130.7	4.680	2532.	.2100-03
184	4.520	5.057	-5.020	3.000	31.00	97.10	.3270	665.0	130.7	4.680	2532.	.2101-03
185	4.520	5.059	-5.010	3.000	31.00	97.10	.3270	665.0	130.7	4.682	2532.	.2102-03
191	4.520	5.060	-4.990	3.000	31.00	97.10	.3270	664.0	130.6	4.678	2531.	.2102-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
183	.1052-06	.4738-01	.1140-01
184	.1052-06	.4738-01	.1140-01
185	.1052-06	.4739-01	.1140-01
191	.1051-06	.4737-01	.1140-01

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
184	.00000	.30000-02	730.00	.4167	.2988	.3934	.9575	.1416-01	.1864-01	1.663	11.42	547.1
184	.00000	.10300-01	731.00	.9250-01	.6970-01	.1166	.9183	.3302-02	.5524-02	.4460	3.096	529.6
184	.00000	.15000-01	732.00	.6450-01	.4890-01	.8090-01	.9183	.2315-02	.3833-02	.3180	2.182	527.4
184	.00000	.25000-01	734.00	.1457	.1079	.1436	.9520	.5112-02	.6804-02	.6550	4.482	536.4
184	.00000	.30000-01	735.00	.2881	.2082	.2872	.9504	.9865-02	.1361-01	1.182	8.102	544.7
184	.00000	.40000-01	737.00	.3250	.2371	.3276	.9490	.1123-01	.1552-01	1.380	9.029	541.7
184	.00000	.45000-01	738.00	.3284	.2397	.3352	.9473	.1136-01	.1588-01	1.398	9.284	541.4
184	.00000	.60000-01	739.00	.3068	.2189	.3266	.9424	.1037-01	.1547-01	1.204	8.084	548.5
184	.00000	.70000-01	740.00	.2456	.1773	.2674	.9395	.8399-02	.1267-01	1.003	6.787	545.1
184	.00000	.80000-01	741.00	.2128	.1545	.2365	.9367	.7321-02	.1120-01	.8890	6.475	543.1
184	.00000	.10000+00	742.00	.1815	.1337	.2087	.9317	.6335-02	.9889-02	.8000	5.367	538.3
184	.00000	.12500	743.00	.1319	.9570-01	.1590	.9266	.4582-02	.7533-02	.5710	4.164	540.0
184	.00000	.15000	744.00	.9310-01	.6920-01	.1149	.9226	.3277-02	.5442-02	.4240	2.962	535.3
184	.00000	.17500	745.00	.5560-01	.4170-01	.6970-01	.9199	.1974-02	.3302-02	.2610	1.978	532.2
184	.00000	.20000	746.00	.3100-01	.2330-01	.3920-01	.9185	.1102-02	.1855-02	.1470	1.060	531.1
184	.00000	.21500	747.00	.2370-01	.1780-01	.3000-01	.9183	.8425-03	.1421-02	.1120	.7850	531.1

PAGE IS OF POOR QUALITY

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F25)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TH DEG. R
184	.00000	.23000	748.00	.1770-01	.1320-01	.2240-01	.9183	.6274-03	.1063-02	.8300-01	.6190	532.0
184	.00000	.24000	749.00	.1190-01	.8900-02	.1510-01	.9183	.4224-03	.7169-03	.5600-01	.4240	532.4
184	.00000	.25000	750.00	.3900-02	.2900-02	.5000-02	.9183	.1389-03	.2351-03	.1800-01	.1500	531.8
184	.00000	.30000	751.00	.1680-01	.1250-01	.2130-01	.9183	.5945-03	.1009-02	.7900-01	.5190	532.5
184	.00000	.35000	752.00	.2790-01	.2100-01	.3540-01	.9183	.9932-03	.1677-02	.1320	.8420	531.4
184	.00000	.40000	753.00	.5900-01	.4400-01	.7520-01	.9183	.2084-02	.3565-02	.2720	1.763	533.8
184	.00000	.50000	754.00	.3120-01	.2290-01	.4040-01	.9183	.1086-02	.1916-02	.1360	.8950	539.1
184	.01000	.60000	755.00	.4800-01	.3560-01	.6150-01	.9183	.1688-02	.2914-02	.2180	1.405	535.5
184	.00000	.70000	756.00	.3320-01	.2460-01	.4250-01	.9183	.1165-02	.2015-02	.1500	.9960	535.8
184	.00000	.90000	758.00	.2260-01	.1710-01	.2840-01	.9183	.8096-03	.1345-02	.1100	.7210	528.2
184	55.000	.22000	759.00	.3870-01	.2890-01	.4900-01	.9187	.1371-02	.2320-02	.1810	1.358	532.4
184	55.000	.25000	760.00	.1660-01	.1240-01	.2100-01	.9183	.5879-03	.9949-03	.7800-01	.6160	531.8
184	55.000	.27000	761.00	.1750-01	.1310-01	.2220-01	.9183	.6185-03	.1052-02	.8200-01	.6110	532.7
184	55.000	.30000	762.00	.4610-01	.3440-01	.5880-01	.9183	.1629-02	.2787-02	.2130	1.289	533.8
184	55.000	.32000	763.00	.4320-01	.3230-01	.5490-01	.9183	.1532-02	.2601-02	.2020	1.206	532.4
184	55.000	.34000	764.00	.4540-01	.3400-01	.5770-01	.9183	.1613-02	.2734-02	.2130	1.276	532.1
184	55.000	.36000	765.00	.7980-01	.5930-01	.1022	.9183	.2811-02	.4841-02	.3640	2.201	535.1
184	55.000	.38000	766.00	.6780-01	.5040-01	.8670-01	.9183	.2388-02	.4108-02	.3100	1.893	534.9
184	55.000	.40000	767.00	.3900-01	.2920-01	.4940-01	.9183	.1384-02	.2343-02	.1840	1.156	531.9
184	67.500	.23000	768.00	.4530-01	.3390-01	.5750-01	.9186	.1606-02	.2722-02	.2120	1.589	532.6
184	67.500	.25000	769.00	.1880-01	.1410-01	.2390-01	.9183	.6674-03	.1133-02	.8800-01	.6910	532.5
184	67.500	.27000	770.00	.3240-01	.2420-01	.4120-01	.9183	.1144-02	.1954-02	.1500	1.101	533.5
184	67.500	.29000	771.00	.3350-01	.2490-01	.4270-01	.9183	.1181-02	.2025-02	.1540	.9590	534.3
184	67.500	.30000	772.00	.6050-01	.4500-01	.7750-01	.9183	.2130-02	.3670-02	.2760	1.694	535.2
184	67.500	.31000	773.00	.6040-01	.4490-01	.7730-01	.9183	.2129-02	.3661-02	.2760	1.685	534.1
184	67.500	.32000	774.00	.8320-01	.6530-01	.1134	.9183	.3096-02	.5372-02	.3960	2.396	536.5
184	67.500	.32500	775.00	.9940-01	.7330-01	.1284	.9183	.3474-02	.6083-02	.4390	2.661	538.0
184	67.500	.33000	776.00	.1166	.8570-01	.1512	.9183	.4059-02	.7164-02	.5080	3.085	539.3
184	67.500	.33500	777.00	.1321	.9660-01	.1723	.9183	.4576-02	.8163-02	.5650	3.427	541.0
184	67.500	.34000	778.00	.1333	.9720-01	.1743	.9183	.4606-02	.8257-02	.5650	3.426	541.8
184	67.500	.34500	779.00	.1401	.1019	.1836	.9183	.4830-02	.8698-02	.5890	3.581	542.5
184	67.500	.35000	780.00	.1367	.9970-01	.1788	.9183	.4724-02	.8470-02	.5800	3.532	541.8
184	67.500	.35500	781.00	.1328	.9720-01	.1729	.9183	.4604-02	.8191-02	.5700	3.487	540.6
184	67.500	.36000	782.00	.1182	.8680-01	.1533	.9183	.4113-02	.7261-02	.5150	3.149	539.4
184	67.500	.36500	783.00	.9200-01	.6790-01	.1185	.9183	.3219-02	.5616-02	.4090	2.500	537.4
184	67.500	.37000	784.00	.8060-01	.5980-01	.1035	.9183	.2831-02	.4902-02	.3640	2.235	536.1
184	67.500	.37500	785.00	.6360-01	.4740-01	.8130-01	.9183	.2245-02	.3852-02	.2920	1.810	534.5
184	67.500	.38000	786.00	.5640-01	.4210-01	.7180-01	.9183	.1994-02	.3403-02	.2610	1.624	533.5
184	67.500	.39000	787.00	.4280-01	.3210-01	.5430-01	.9183	.1520-02	.2572-02	.2020	1.259	531.9
184	67.500	.40000	788.00	.3320-01	.2490-01	.4210-01	.9183	.1181-02	.1993-02	.1570	.9900	531.4
184	67.500	.50000	789.00	.9000-02	.6800-02	.1140-01	.9183	.3212-03	.5423-03	.4300-01	.2760	531.4
191	67.500	.60000	790.00	.5700-02	.4700-02	.6800-02	.9131	.2084-03	.3063-03	.4200-01	.2770	540.9
191	67.500	.70000	791.00	.1910-01	.1550-01	.2300-01	.9131	.6959-03	.1030-02	.1390	.9800	543.9

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F25)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
191	67.500	.80000	792.00	.2430-01	.1980-01	.2920-01	.9131	.8879-03	.1309-02	.1780	1.123	542.2
191	67.500	.90000	793.00	.7600-02	.6200-02	.9200-02	.9131	.2773-03	.4133-03	.5400-01	.3510	546.8
191	78.000	.27000	794.00	.2620-01	.2130-01	.3130-01	.9133	.9561-03	.1404-02	.1930	1.381	541.1
191	78.000	.29000	795.00	.5220-01	.4200-01	.6330-01	.9141	.1881-02	.2834-02	.3570	2.194	553.2
185	78.000	.30000	796.00	.1217	.8880-01	.1586	.9185	.4210-02	.7517-02	.5180	3.151	541.4
185	78.000	.31000	797.00	.1719	.1237	.2278	.9185	.5864-02	.1080-01	.6950	4.216	546.0
185	78.000	.32000	798.00	.1927	.1377	.2575	.9185	.6523-02	.1220-01	.7590	4.575	548.2
185	78.000	.32500	799.00	.1917	.1368	.2566	.9185	.6482-02	.1216-01	.7520	4.544	548.5
185	78.000	.33000	800.00	.1958	.1398	.2619	.9185	.6624-02	.1241-01	.7700	4.649	548.4
185	78.000	.33500	801.00	.2141	.1518	.2888	.9185	.7195-02	.1368-01	.8220	4.961	550.3
185	78.000	.34000	802.00	.2202	.1562	.2971	.9185	.7401-02	.1408-01	.8450	5.101	550.3
185	78.000	.34500	803.00	.2213	.1581	.2959	.9185	.7490-02	.1402-01	.8710	5.278	548.2
185	78.000	.35000	804.00	.2118	.1522	.2813	.9185	.7211-02	.1333-01	.8510	5.159	546.6
185	78.000	.35500	805.00	.1830	.1323	.2413	.9185	.6268-02	.1143-01	.7520	4.561	544.6
185	78.000	.36000	806.00	.1517	.1105	.1982	.9185	.5237-02	.9392-02	.6420	3.909	542.1
185	78.000	.36500	807.00	.1340	.9800-01	.1743	.9185	.4643-02	.8262-02	.5740	3.511	540.9
185	78.000	.37000	808.00	.9360-01	.6910-01	.1206	.9185	.3273-02	.5715-02	.4150	2.549	537.8
185	78.000	.37500	809.00	.7140-01	.5290-01	.9150-01	.9185	.2509-02	.4334-02	.3230	1.984	535.9
185	78.000	.38000	810.00	.5370-01	.4010-01	.6830-01	.9185	.1899-02	.3237-02	.2490	1.540	533.5
185	78.000	.39000	811.00	.3620-01	.2730-01	.4570-01	.9185	.1292-02	.2167-02	.1730	1.077	530.4
185	78.000	.40000	812.00	.3230-01	.2430-01	.4070-01	.9185	.1154-02	.1931-02	.1550	.9650	530.0
191	90.000	.40000-01	985.00	.4819	.3470	.4405	.9621	.1644-01	.2087-01	1.950	12.69	545.5
191	90.000	.50000-01	986.00	.4233	.3072	.3978	.9585	.1455-01	.1884-01	1.762	11.42	543.0
191	90.000	.60000-01	987.00	.3906	.2737	.3746	.9550	.1296-01	.1774-01	1.438	9.436	553.2
191	90.000	.70000-01	988.00	.3706	.2620	.3655	.9517	.1241-01	.1731-01	1.406	9.432	550.8
191	90.000	.80000-01	989.00	.3226	.2293	.3266	.9485	.1086-01	.1547-01	1.247	8.825	549.3
191	90.000	.10000+00	990.00	.2637	.1907	.2798	.9425	.9034-02	.1325-01	1.084	7.081	544.1
191	90.000	.15000	991.00	.1457	.1056	.1715	.9302	.5000-02	.8122-02	.6030	4.432	543.6
185	90.000	.20000	813.00	.4920-01	.3670-01	.6220-01	.9192	.1738-02	.2949-02	.2270	1.663	533.9
185	90.000	.24000	814.00	.3710-01	.2760-01	.4720-01	.9187	.1307-02	.2236-02	.1700	1.385	534.4
185	90.000	.27000	816.00	.3490-01	.2590-01	.4450-01	.9187	.1229-02	.2108-02	.1590	1 138	535.0
185	90.000	.29000	817.00	.1582	.1128	.2113	.9187	.5347-02	.1001-01	.6200	3.849	548.6
185	90.000	.30000	818.00	.2818	.1910	.4011	.9187	.9953-02	.1901-01	.9340	5.666	551.4
185	90.000	.31000	819.00	.3049	.2092	.4272	.9187	.9913-02	.2025-01	1.049	6.324	58.7
185	90.000	.32000	820.00	.3138	.2153	.4398	.9187	.1020-01	.2084-01	1.080	6.487	558.7
185	90.000	.32500	821.00	.3113	.2132	.4374	.9187	.1010-01	.2073-01	1.064	6.378	559.2
185	90.000	.33000	822.00	.3052	.2067	.4351	.9187	.9794-02	.2062-01	1.008	6.048	561.7
185	90.000	.33500	823.00	.3281	.2163	.4851	.9187	.1025-01	.2299-01	.9990	5.997	567.1
185	90.000	.34000	824.00	.4392	.2870	.6574	.9187	.1360-01	.3115-01	1.304	7.778	568.7
185	90.000	.34500	825.00	.4807	.3068	.7451	.9187	.1454-01	.3531-01	1.335	7.966	572.7
185	90.000	.35000	826.00	.5701	.3329	1.029	.9187	.1578-01	.4877-01	1.260	7.473	584.7
185	90.000	.36000	828.00	.2774	.1858	.4013	.9187	.8805-02	.1902-01	.8860	5.295	564.0
185	90.000	.36500	829.00	.1477	.1065	.1950	.9187	.5047-02	.9242-02	.6010	3.634	545.5

DATE 03 JUN 76 AEDC V-1A-A-A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7725)

IH41(AEDC V-1A-A-A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
185	90.000	.37000	830.00	.1234	.9110-01	.1585	.9187	.4319-02	.7510-02	.5490	3.346	537.4
185	90.000	.37500	831.00	.9180-01	.6850-01	.1165	.9187	.3248-02	.5519-02	.4270	2.618	533.3
185	90.000	.38000	832.00	.6320-01	.4730-01	.7990-01	.9187	.2242-02	.3786-02	.2970	1.824	532.1
185	90.000	.39000	833.00	.7050-01	.5240-01	.8990-01	.9187	.2485-02	.4261-02	.3220	1.997	534.9
185	90.000	.40000	834.00	.7230-01	.5370-01	.9220-01	.9187	.2545-02	.4371-02	.3290	2.046	535.2
185	90.000	.50000	835.00	.3260-01	.2420-01	.4150-01	.9187	.1149-02	.1965-02	.1490	.9500	534.5
185	90.000	.60000	836.00	.4250-01	.3180-01	.5400-01	.9187	.1506-02	.2557-02	.1980	1.327	533.2
185	90.000	.70000	837.00	.7200+01	.5300-01	.9270-01	.9187	.2512-02	.4392-02	.3170	2.242	538.3
185	90.000	.80000	838.00	.9010-01	.6710-01	.1149	.9187	.3178-02	.5445-02	.4120	2.578	534.8
185	90.000	.90000	839.00	.2270-01	.1650-01	.2950-01	.9187	.7827-03	.1399-02	.9600-01	.6150	541.9
185	112.50	.23000	840.00	.6070-01	.4500-01	.7680-01	.9200	.2132-02	.3638-02	.2740	2.220	536.1
185	112.50	.25000	841.00	.3190-01	.2360-01	.4060-01	.9192	.1120-02	.1924-02	.1440	1.121	536.1
185	112.50	.30000	843.00	.1059	.7780-01	.1362	.9192	.3689-02	.6454-02	.4620	2.768	539.3
185	112.50	.33000	844.00	.1924	.1379	.2544	.9192	.6535-02	.1205-01	.7660	4.617	547.3
185	112.50	.35000	845.00	.2667	.1860	.3639	.9192	.8814-02	.1725-01	.9680	5.906	554.8
185	112.50	.37000	846.00	.2043	.1465	.2696	.9192	.6944-02	.1278-01	.8160	5.031	547.0
185	112.50	.40000	847.00	.1083	.8030-01	.1379	.9192	.3805-02	.6535-02	.4890	3.063	536.1
185	112.50	.45000	848.00	.7510-01	.5590-01	.9510-01	.9192	.2650-02	.4507-02	.3450	2.184	534.3
185	112.50	.50000	849.00	.6920-01	.5120-01	.8820-01	.9192	.2427-02	.4178-02	.3110	2.009	536.5
185	112.50	.55000	850.00	.5830-01	.4320-01	.7420-01	.9192	.2048-02	.3518-02	.2630	1.769	536.0
185	112.50	.60000	851.00	.8790-01	.6530-01	.1118	.9192	.3093-02	.5297-02	.3990	2.688	535.6
185	112.50	.65000	852.00	.1234	.9060-01	.1587	.9192	.4295-02	.7523-02	.5370	3.668	539.5
185	112.50	.70000	853.00	.1117	.8090-01	.1459	.9192	.3835-02	.6914-02	.4620	3.249	544.0
185	112.50	.75000	854.00	.6620-01	.4880-01	.8490-01	.9192	.2312-02	.4025-02	.2910	1.896	538.5
185	112.50	.90000	856.00	.1915	.1393	.2489	.9192	.6599-02	.1179-01	.8040	5.227	542.7
185	125.40	.84000	857.00	.9400-01	.6980-01	.1192	.9195	.3309-02	.5650-02	.4270	2.657	535.4
185	125.40	.85000	858.00	.9200-01	.6840-01	.1165	.9195	.3243-02	.5519-02	.4210	2.631	534.8
185	125.40	.86000	859.00	.7760-01	.5780-01	.9810-01	.9195	.2741-02	.4650-02	.3570	2.252	534.3
185	125.40	.87000	860.00	.7210-01	.5360-01	.9140-01	.9195	.2542-02	.4330-02	.3290	2.082	535.0
185	125.40	.88000	861.00	.9970-01	.7380-01	.1269	.9195	.3499-02	.6014-02	.4480	2.828	536.6
185	125.40	.89000	862.00	.1268	.9310-01	.1629	.9195	.4411-02	.7720-02	.5510	3.493	539.7
185	125.40	.90000	863.00	.1539	.1131	.1973	.9195	.5361-02	.9348-02	.6720	4.291	539.1
185	125.40	.91000	864.00	.1564	.1139	.2025	.9195	.5396-02	.9596-02	.6600	4.806	542.3
185	125.40	.92600	865.00	.2165	.1531	.2898	.9195	.7254-02	.1373-01	.8230	5.947	551.2
185	129.30	.80000	866.00	.6460+01	.4850-01	.8110-01	.9195	.2299-02	.3842-02	.3060	1.938	531.5
185	129.30	.81000	867.00	.6170+01	.4630-01	.7730-01	.9195	.2194-02	.3665-02	.2920	1.840	531.4
185	129.30	.82000	868.00	.6280+01	.4710-01	.7870-01	.9195	.2232-02	.3730-02	.2970	1.872	531.4
185	129.30	.83000	869.00	.6560+01	.4890-01	.8290-01	.9195	.2318-02	.3927-02	.3020	1.907	534.1
185	135.00	.40000-01	870.00	.5101	.3615	.4477	.9669	.1713-01	.2122-01	1.954	12.54	550.5
185	135.00	.50000-01	871.00	.4623	.3313	.4184	.9633	.1570-01	.1983-01	1.840	11.76	547.4
185	135.00	.60000-01	872.00	.3999	.2762	.3678	.9597	.1309-01	.1743-01	1.406	9.286	557.2
185	135.00	.70000-01	873.00	.3822	.2660	.3622	.9563	.1260-01	.1717-01	1.378	9.333	555.3
185	135.00	.10000+00	875.00	.2827	.2030	.2901	.9467	.9618-02	.1375-01	1.134	7.439	546.7

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RVTF25)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
185	135.00	.15000	876.00	.1917	.1377	.2201	.9336	.6526-02	.1043-01	.7700	5.634	546.6
185	135.00	.20000	877.00	.1017	.7500-01	.1246	.9241	.3553-02	.5906-02	.4500	3.047	538.0
185	135.00	.35000	878.00	.9480-01	.7010-01	.1205	.9196	.3323-02	.5709-02	.4250	2.652	536.8
185	135.00	.40000	879.00	.9250-01	.6820-01	.1181	.9196	.3230-02	.5599-02	.4080	2.595	538.3
185	135.00	.50000	880.00	.1179	.8510-01	.1541	.9196	.4032-02	.7301-02	.4810	3.305	545.3
185	135.00	.55000	881.00	.1248	.9030-01	.1625	.9196	.4282-02	.7701-02	.5150	3.435	544.3
185	135.00	.60000	882.00	.1195	.8780-01	.1530	.9196	.4162-02	.7250-02	.5220	3.521	539.2
185	135.00	.65000	883.00	.9550-01	.7070-01	.1214	.9196	.3349-02	.5753-02	.4280	2.937	536.7
185	135.00	.70000	884.00	.6470-01	.4820-01	.8170-01	.9196	.2285-02	3873-02	.2980	2.129	534.3
185	135.00	.75000	885.00	.6530-01	.4870-01	.8240-01	.9196	.2306-02	.3906-02	.3010	1.907	534.2
185	135.00	.80000	886.00	.6410-01	.4810-01	.8030-01	.9196	.2279-02	.3804-02	.3040	1.924	531.3
185	135.00	.84000	887.00	.8090-01	.6500-01	.9760-01	.9150	.2908-02	.4368-02	.5480	3.434	552.3
191	135.00	.85000	888.00	.7400-01	.5470-01	.9420-01	.9196	.2592-02	.4461-02	.3300	2.104	536.7
191	135.00	.86300	889.00	.4740-01	.3530-01	.6000-01	.9196	.1670-02	.2843-02	.2160	1.375	534.7
191	135.00	.87000	890.00	.7070-01	.5260-01	.8950-01	.9196	.2490-02	.4239-02	.3220	2.061	534.7
191	135.00	.89000	892.00	.1049	.7740-01	.1337	.9196	.3668-02	.6333-02	.4650	3.041	537.3
191	135.00	.90000	893.00	.1153	.8490-01	.1472	.9196	.4023-02	.6974-02	.5070	3.355	538.0
191	135.00	.91000	894.00	.8810-01	.6480-01	.1127	.9196	.3069-02	.5340-02	.3850	2.822	538.6
191	135.00	.92600	895.00	.1013	.7210-01	.1342	.9196	.3415-02	.6358-02	.3940	2.861	548.8
191	135.00	.95000	896.00	.6550-01	.4890-01	.8260-01	.9196	.2315-02	.3914-02	.3020	2.199	533.5
191	142.30	.42000	897.00	.1428	.1036	.1853	.9197	.4906-02	.8778-02	.5930	3.822	543.2
191	142.30	.43500	898.00	.2644	.1853	.3569	.9197	.8778-02	.1690-01	.9740	6.067	553.1
191	142.30	.45000	899.00	.2196	.1560	.2916	.9197	.7391-02	.1381-01	.8480	5.541	549.4
191	142.30	.50000	900.00	.1834	.1309	.2425	.9197	.6198-02	.1149-01	.7180	4.780	548.2
191	142.30	.60000	901.00	.1201	.8840-01	.1534	.9197	.4186-02	.7267-02	.5270	3.513	538.3
191	142.30	.70000	902.00	.7960-01	.5890-01	.1011	.9197	.2792-02	.4787-02	.3570	2.453	536.1
191	142.30	.80000	903.00	.8210-01	.6120-01	.1034	.9197	.2900-02	.4900-02	.3790	2.425	533.4
191	142.30	.87000	904.00	.5710-01	.4210-01	.7270-01	.9197	.1994-02	.3444-02	.2530	1.605	537.4
191	154.98	.42000	905.00	.1888	.1352	.2486	.9197	.6405-02	.1177-01	.7490	4.830	547.1
191	154.98	.43500	906.00	.2527	.1775	.3400	.9197	.8405-02	.1611-01	.9380	6.054	552.6
191	154.98	.45000	907.00	.1958	.1409	.2563	.9197	.6675-02	.1214-01	.7910	5.102	545.7
191	154.98	.50000	908.00	.1880	.1348	.2471	.9197	.6387-02	.1170-01	.7500	5.365	546.7
191	154.98	.93500	913.00	.3871	.2523	.5725	.9197	.1195-01	.2712-01	.1140	8.194	568.7
191	154.98	.94500	914.00	.2459	.1679	.3422	.9197	.7955-02	.1621-01	.8330	5.961	559.4
191	157.50	.80000-01	919.00	.3594	.2541	.3503	.9531	.1203-01	.1659-01	1.363	9.284	550.8
191	157.50	.20000	922.00	.1060	.7810-01	.1299	.9242	.3700-02	.6155-02	.4670	3.123	537.9
191	157.50	.42000	923.00	.1669	.1204	.2180	.9197	.5705-02	.1033-01	.6800	4.441	544.9
191	157.50	.43500	924.00	.2098	.1502	.2765	.9197	.7114-02	.1310-01	.8310	5.435	547.3
191	157.50	.45000	925.00	.2123	.1514	.2809	.9197	.7170-02	.1331-01	.8300	5.472	548.4
191	157.50	.85000	926.00	.7460-01	.5540-01	.9450-01	.9197	.2625-02	.4478-02	.3380	2.201	535.2
191	157.50	.86000	927.00	.5970-01	.4410-01	.7590-01	.9197	.2087-02	.3597-02	.2650	1.730	537.0
191	157.50	.87000	928.00	.8520-01	.6300-01	.1085	.9197	.2984-02	.5138-02	.3800	2.483	536.8
191	157.50	.88000	929.00	.9580-01	.7050-01	.1225	.9197	.3338-02	.5800-02	.4200	2.757	538.4

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F25)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TH DEG. R
191	157.50	.89000	930.00	.1131	.8270-01	.1457	.9197	.3917-02	.6901-02	.4830	3.190	540.7
191	157.50	.90000	931.00	.1351	.9830-01	.1748	.9197	.4654-02	.8281-02	.5670	3.831	542.3
191	157.50	.91000	932.00	.1057	.7600-01	.1386	.9197	.3602-02	.6563-02	.4260	3.118	545.9
191	157.50	.92600	933.00	.1375	.9220-01	.1957	.9197	.4367-02	.9271-02	.4410	3.187	563.2
191	163.12	.41500	934.00	.1396	.1020	.1799	.9196	.4831-02	.8520-02	.5960	3.876	540.8
191	163.12	.42000	935.00	.16	.1172	.2094	.9196	.5552-02	.9919-02	.6730	4.414	542.8
191	163.12	.43000	937.00	.2	.1748	.3390	.9196	.8280-02	.1606-01	.9130	5.967	553.9
191	163.12	.44000	938.00	.3	.2270	.4812	.9196	.1075-01	.2279-01	1.086	7.050	563.1
191	163.12	.44500	939.00	.3063	.2057	.4359	.9196	.9744-02	.2064-01	.9650	6.30	563.0
191	163.12	.45000	940.00	.2835	.1942	.3936	.9196	.9197-02	.1864-01	.9650	6.397	558.7
191	163.12	.50000	941.00	.1322	.3560-01	.1723	.9196	.4528-02	.8159-02	.5430	3.688	544.2
191	163.12	.60000	942.00	.1128	.8270-01	.1448	.9196	.3917-02	.6860-02	.4870	3.153	539.7
191	163.12	.70000	943.00	.8730-01	.6480-01	.1107	.9196	.3067-02	.5245-02	.3940	2.723	535.5
191	163.12	.80000	944.00	.7090-01	.5310-01	.8910-01	.9196	.2516-02	.4220-02	.3330	2.188	531.9
191	163.12	.80000	944.00	.7090-01	.5310-01	.8910-01	.9196	.2349-02	.3987-02	.3050	1.949	534.1
191	168.00	.35000	945.00	.6660-01	.4960-01	.8420-01	.9196	.2353-02	.3991-02	.3060	1.960	533.9
191	168.00	.36000	946.00	.6670-01	.4970-01	.8430-01	.9196	.2290-02	.3887-02	.2980	1.911	534.1
191	168.00	.37000	947.00	.6490-01	.4840-01	.8210-01	.9196	.2435-02	.4141-02	.3160	2.027	534.4
191	168.00	.37500	948.00	.6910-01	.5140-01	.8740-01	.9196	.3798-02	.6575-02	.4860	3.112	537.6
191	168.00	.38500	950.00	.1087	.8020-01	.1388	.9196	.4401-02	.7723-02	.5470	3.558	539.9
191	168.00	.39000	951.00	.1268	.9290-01	.1630	.9196	.3888-02	.6775-02	.4870	3.129	538.7
191	168.00	.39500	952.00	.1116	.8210-01	.1430	.9196	.3699-02	.6421-02	.4660	3.047	538.1
191	168.00	.40000	953.00	.1060	.7810-01	.1356	.9196	.3887-02	.6787-02	.4860	3.18	539.1
191	168.00	.40500	954.00	.1117	.8210-01	.1433	.9196	.4170-02	.7343-02	.5160	3.375	540.5
191	168.00	.41000	955.00	.1204	.8800-01	.1550	.9196	.5013-02	.8958-02	.6100	4.000	542.4
191	168.00	.41500	956.00	.1456	.1058	.1887	.9196	.6302-02	.1151-01	.7440	4.886	546.0
191	168.00	.42000	957.00	.1851	.1350	.2429	.9196	.6472-02	.1189-01	.7590	4.981	546.8
191	168.00	.42500	958.00	.1906	.1366	.2510	.9196	.9564-02	.1973-01	.9920	6.444	560.4
191	168.00	.43000	959.00	.2970	.2019	.4166	.9196	.1096-01	.2207-01	1.164	7.594	558.0
191	168.00	.44000	960.00	.3368	.2314	.4660	.9196	.9676-02	.1902-01	1.052	6.877	555.3
191	168.00	.44500	961.00	.2940	.2043	.4015	.9195	.8945-02	.1745-01	.9800	6.446	554.5
191	168.00	.45000	962.00	.2709	.1888	.3685	.9196	.8295-02	.1610-01	.9140	6.011	553.9
191	168.00	.45500	963.00	.2507	.1751	.3400	.9196	.7315-02	.1411-01	.8110	5.370	553.2
191	168.00	.46000	964.00	.2204	.1544	.2980	.9196	.6785-02	.1275-01	.7750	5.153	549.9
191	168.00	.47000	965.00	.2020	.1432	.2691	.9196	.5839-02	.1063-01	.6920	4.654	545.6
191	168.00	.48000	966.00	.1712	.1233	.2244	.9196	.4351-02	.7643-02	.5390	3.637	540.2
191	168.00	.49000	967.00	.1255	.9190-01	.1615	.9196	.1963-02	.3356-02	.2520	1.647	535.5
191	168.00	.85000	968.00	.5580-01	.4140-01	.7090-01	.9196	.2120-02	.3653-02	.2700	1.764	536.9
191	168.00	.86000	969.00	.6050-01	.4470-01	.7710-01	.9196	.4637-02	.8097-02	.5800	3.753	539.1
191	168.00	.87000	970.00	.1333	.9790-01	.1709	.9196	.4216-02	.7423-02	.5220	3.423	540.4
191	168.00	.88000	971.00	.1217	.8900-01	.1567	.9196	.4517-02	.8070-02	.5480	3.647	542.8
191	168.00	.89000	972.00	.1313	.9540-01	.1704	.9196	.4048-02	.7382-02	.4790	3.259	545.8
191	168.00	.90000	973.00	.1188	.8550-01	.1559	.9196	.2936-02	.5515-02	.3350	2.443	549.9
191	68.00	.91000	974.00	.8740-01	.6200-01	.1164	.9196					

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
191	168.00	.92600	975.00	.6260-01	.4020-01	.9450-01	.3198	.1906-02	.4474-02	.1770	1.270	571.0
191	168.00	.95000	976.00	.1068	.7950-01	.1350	.9196	.3764-02	.6395-02	.4890	3.541	534.3
191	180.00	.20000-01	982.00	.4034	.2959	.3499	.9710	.1401-01	.1658-01	1.746	12.18	539.5
191	180.00	.25000-01	983.00	.8576	.5866	.7298	.9690	.2779-01	.3457-01	2.920	20.05	559.0
191	180.00	.30000-01	984.00	.9014	.6160	.7772	.9672	.2918-01	.3682-01	3.060	20.88	559.2
183	180.00	.40000-01	600.00	.5522	.3836	.4852	.9657	.1817-01	.2299-01	1.979	12.67	556.0
183	180.00	.50000-01	601.00	.4860	.3431	.4416	.9621	.1626-01	.2092-01	1.839	11.83	551.8
183	180.00	.60000-01	602.00	.4151	.2830	.3844	.9585	.1341-01	.1821-01	1.401	9.270	560.4
183	180.00	.70000-01	603.00	.3636	.2504	.3475	.9551	.1187-01	.1647-01	1.268	8.602	558.1
183	180.00	.80000-01	604.00	.3473	.2416	.3418	.9518	.1145-01	.1619-01	1.250	8.098	555.7
183	180.00	.10000+00	605.00	.2706	.1913	.2807	.9457	.5062-02	.1330-01	1.028	7.357	551.5
183	180.00	.15000	606.00	.1658	.1183	.1924	.9327	.5607-02	.9118-02	.6520	4.734	548.7
183	180.00	.20000	607.00	.9730-01	.7140-01	.1201	.9236	.3382-02	.5709-02	.4220	2.761	540.2
183	180.00	.21000	608.00	.7800-01	.5740-01	.9750-01	.9222	.2720-02	.4618-02	.3420	2.374	539.1
183	180.00	.22000	609.00	.6510-01	.4790-01	.8210-01	.9211	.2269-02	.3890-02	.2860	2.133	539.0
183	180.00	.30000	610.00	.6000-01	.4420-01	.7690-01	.9193	.2095-02	.3611-02	.2640	1.816	538.8
183	180.00	.35000	611.00	.5310-01	.3910-01	.6790-01	.9193	.1854-02	.3218-02	.2340	1.568	538.4
183	180.00	.36000	612.00	.5050-01	.3720-01	.6460-01	.9193	.1763-02	.3059-02	.2230	1.507	538.3
183	180.00	.37000	613.00	.6820-01	.5020-01	.8740-01	.9193	.2377-02	.4143-02	.2990	2.018	539.1
183	180.00	.37500	614.00	.8120-01	.5930-01	.1048	.9193	.2810-02	.4968-02	.3470	2.338	541.4
183	180.00	.38000	615.00	.1001	.7280-01	.1301	.9193	.3447-02	.6166-02	.4190	2.823	543.3
183	180.00	.38500	616.00	.9590-01	.6970-01	.1247	.9193	.3303-02	.5910-02	.4010	2.703	543.3
183	180.00	.39000	617.00	.9740-01	.7090-01	.1264	.9193	.3359-02	.5989-02	.4100	2.754	542.8
183	180.00	.39500	618.00	.9530-01	.6920-01	.1238	.9193	.3281-02	.5865-02	.3990	2.696	543.2
183	180.00	.40000	619.00	.9800-01	.7100-01	.1277	.9193	.3366-02	.6050-02	.4070	2.729	544.0
183	180.00	.40500	620.00	.1165	.8390-01	.1529	.9193	.3974-02	.7244-02	.4720	3.173	546.1
183	180.00	.41000	621.00	.1493	.1063	.1985	.9193	.5039-02	.9405-02	.5820	3.906	549.4
183	180.00	.41500	622.00	.1810	.1274	.2439	.9193	.6039-02	.1155-01	.6780	4.532	552.6
183	180.00	.42500	624.00	.2622	.1791	.3263	.9193	.8486-02	.1735-01	.8910	5.928	559.9
183	180.00	.43000	625.00	.3220	.2155	.4612	.9193	.1021-01	.2188-01	1.027	6.841	564.3
183	180.00	.44000	626.00	.3537	.2280	.5341	.9193	.1081-01	.2531-01	1.011	6.713	571.3
183	180.00	.44500	627.00	.3116	.2040	.4605	.9193	.9666-02	.2182-01	.9310	6.243	568.6
183	180.00	.45000	628.00	.2406	.1633	.3391	.9193	.7737-02	.1607-01	.8000	5.388	561.5
183	180.00	.45500	629.00	.1808	.1264	.2456	.9193	.5990-02	.1164-01	.6620	4.542	554.4
183	180.00	.46000	630.00	.1414	.1009	.1876	.9193	.4782-02	.8889-02	.5550	3.726	548.8
183	180.00	.47000	631.00	.9230-01	.6730-01	.1195	.9193	.3188-02	.5662-02	.3910	2.636	542.2
183	180.00	.48000	632.00	.7270-01	.5280-01	.9460-01	.9193	.2501-02	.4481-02	.3030	2.055	543.5
183	180.00	.49000	633.00	.8480-01	.6080-01	.1117	.9193	.2883-02	.5294-02	.3390	2.316	547.1
183	180.00	.50000	634.00	.1538	.1075	.2090	.9193	.5092-02	.9904-02	.5620	3.916	554.5
183	180.00	.55000	635.00	.1302	.9300-01	.1725	.9193	.4408-02	.8175-02	.5130	3.403	548.5
183	180.00	.60000	636.00	.1368	.9880-01	.1788	.9193	.4683-02	.8472-02	.5610	3.624	545.0
183	180.00	.65000	637.00	.9740-01	.7100-01	.1261	.9193	.3363-02	.5974-02	.4130	2.675	542.2
183	180.00	.70000	638.00	.7830-01	.5740-01	.1009	.9193	.2719-02	.4782-02	.3380	2.320	540.6

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F25)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	HI[illegible]	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
183	180.00	.75000	639.00	.6530-01	.4320-01	.8360-01	.9193	[illegible]	.3962-02	.2890	1.870	538.4
183	180.00	.80000	640.00	.7750-01	.5710-01	.9930-01	.9193	[illegible]	.4704-02	.3410	2.146	538.8
183	180.00	.85000	641.00	.6660-01	.4840-01	.8650-01	.9193	[illegible]	.4100-02	.2790	1.767	543.2
183	180.00	.86000	642.00	.9000-01	.6510-01	.1176	.9193	[illegible]	.5570-02	.3700	2.376	544.8
183	180.00	.87000	643.00	.1322	.9490-01	.1742	.9193	.4496-02	.8253-02	.5290	3.414	547.1
183	180.00	.88000	644.00	.1497	.1066	.1990	.9193	.5049-02	.9430-02	.5830	3.786	549.5
183	180.00	.89000	645.00	.1472	.1041	.1972	.9193	.4934-02	.9345-02	.5610	3.681	551.3
183	180.00	.90000	646.00	.1270	.8970-01	.1703	.9193	.4252-02	.8069-02	.4820	3.232	551.5
183	180.00	.92600	648.00	.5800-01	.3600-01	.9300-01	.9193	.1704-02	.4405-02	.1490	1.070	577.4
183	180.00	.95000	649.00	.3790-01	.2790-01	.4860-01	.9193	.1324-02	.2301-02	.1670	1.213	538.6
183	191.25	.35000	650.00	.5560-01	.4090-01	.7140-01	.9191	.1939-02	.3383-02	.2440	1.650	538.8
183	191.25	.36000	651.00	.6070-01	.4460-01	.7800-01	.9191	.2114-02	.3694-02	.2660	1.800	539.1
183	191.25	.37000	652.00	.1088	.7900-01	.1417	.9191	.3745-02	.6716-02	.4550	3.066	543.3
183	191.25	.37500	653.00	.1140	.8230-01	.1495	.9191	.3899-02	.7085-02	.4660	3.146	545.3
183	191.25	.38000	654.00	.1014	.7350-01	.1326	.9191	.3481-02	.6282-02	.4200	2.834	544.3
183	191.25	.38500	655.00	.9650-01	.7000-01	.1260	.9191	.3315-02	.5969-02	.4010	2.707	543.9
183	191.25	.39000	656.00	.9360-01	.6800-01	.1219	.9191	.3222-02	.5778-02	.3920	2.645	543.3
183	191.25	.39500	657.00	.1039	.7510-01	.1361	.9191	.3560-02	.6450-02	.4270	2.885	544.8
183	191.25	.40000	658.00	.1023	.7380-01	.1343	.9191	.3498-02	.6363-02	.4180	2.827	545.4
183	191.25	.40500	659.00	.1161	.8350-01	.1530	.9191	.3955-02	.7248-02	.4680	3.167	546.5
183	191.25	.41000	660.00	.1296	.9290-01	.1715	.9191	.4402-02	.8125-02	.5170	3.483	547.5
183	191.25	.41500	661.00	.1465	.1046	.1948	.9191	.4955-02	.9230-02	.5750	3.863	548.8
183	191.25	.42000	662.00	.2179	.1522	.2973	.9191	.7211-02	.1409-01	.7950	5.335	554.7
183	191.25	.42500	663.00	.2500	.1714	.3490	.9191	.8122-02	.1653-01	.8590	5.771	559.2
183	191.25	.43000	664.00	.3312	.2167	.4919	.9191	.1027-01	.2331-01	.9870	6.661	568.7
183	[illegible]	.44000	665.00	.3035	.2030	.4374	.9191	.9618-02	.2072-01	.9650	6.490	564.5
183	191.25	.45000	666.00	.2121	.1488	.2878	.9191	.7048-02	.1364-01	.7850	5.304	553.6
183	191.25	.45500	667.00	.1821	.1277	.2472	.9191	.6052-02	.1171-01	.6740	4.553	553.6
183	191.25	.46000	668.00	.1746	.1224	.2372	.9191	.5801-02	.1124-01	.6450	4.373	553.7
183	191.25	.47000	669.00	.1420	.1009	.1896	.9191	.4782-02	.8985-02	.5500	3.746	549.9
183	191.25	.48000	670.00	.1284	.9220-01	.1696	.9191	.4369-02	.8038-02	.5150	3.513	547.0
183	191.25	.49000	671.00	.1325	.9470-01	.1758	.9191	.4487-02	.8327-02	.5230	3.558	548.2
183	191.25	.50000	672.00	.1728	.1207	.2357	.9191	.5719-02	.1117-01	.6310	4.367	554.6
183	191.25	.60000	673.00	.1041	.7620-01	.1345	.9191	.3610-02	.6372-02	.4480	2.880	540.9
183	191.25	.70000	674.00	.1277	.9160-01	.1689	.9191	.4339-02	.8005-02	.5100	3.467	547.4
183	191.25	.85000	676.00	.7160-01	.5200-01	.9350-01	.9191	.2462-02	.4430-02	.2980	1.688	543.8
183	191.25	.86000	677.00	.1035	.7460-01	.1360	.9191	.3534-02	.6444-02	.4210	2.693	545.8
183	191.25	.8700[illegible]	678.00	.1266	.9050-01	.1681	.9191	.4289-02	.7965-02	.5000	3.222	548.3
183	191.25	.88000	679.00	.1370	.9720-01	.1836	.9191	.4604-02	.8700-02	.5260	3.425	550.6
183	191.25	.89000	680.00	.1367	.9590-01	.1855	.9191	.4542-02	.8788-02	.5060	3.337	553.6
183	191.25	.90000	681.00	.1142	.7920-01	.1570	.9191	.3753-02	.7440-02	.4070	2.733	556.3
183	191.25	.91000	682.00	.1590-01	.1100-01	.2210-01	.9191	.5194-03	.1045-02	.5600-01	.4030	558.0
183	191.25	.92600	683.00	.4030-01	.2630-01	.6020-01	.9191	.1245-02	.2853-02	.1190	.8590	569.5

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F25)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
183	191.25	.95000	684.00	.2950-01	.2170-01	.3780-01	.9191	.1029-02	.1789-02	.1300	.9450	538.3
183	197.00	.33000	685.00	.5170-01	.3820-01	.6630-01	.9190	.1808-02	.3143-02	.2290	1.549	538.0
183	197.00	.34000	686.00	.5200-01	.3830-01	.6680-01	.9190	.1816-02	.3163-02	.2300	1.551	538.3
183	197.00	.35000	687.00	.5280-01	.3890-01	.6780-01	.9190	.1845-02	.3212-02	.2330	1.576	538.3
183	197.00	.36000	688.00	.8260-01	.6050-01	.1067	.9190	.2867-02	.5056-02	.3570	2.407	540.4
183	197.00	.37000	689.00	.1162	.8420-01	.1519	.9190	.3990-02	.7199-02	.4820	3.245	544.0
183	197.00	.37500	690.00	.1315	.9470-01	.1733	.9190	.4486-02	.8211-02	.5330	3.594	546.1
183	197.00	.50000	691.00	.1823	.1235	.2588	.9190	.5850-02	.1226-01	.6030	4.021	561.8
183	197.00	.60000	692.00	.1034	.7530-01	.1345	.9190	.3567-02	.6374-02	.4360	2.620	542.5
183	197.00	.70000	693.00	.2228	.1537	.3091	.9190	.7283-02	.1465-01	.7800	5.265	557.7
183	197.00	.80000	694.00	.7610-01	.5610-01	.9760-01	.9190	.2660-02	.4623-02	.3380	2.132	538.0
185	197.00	.87000	695.00	.1308	.9320-01	.1746	.9190	.4415-02	.8272-02	.5100	3.249	549.3
185	197.00	.92600	696.00	.5490-01	.3590-01	.8200-01	.9190	.1700-02	.3884-02	.1630	1.179	569.1
191	209.80	.15000-01	697.00	.1411	.1149	.1692	.9136	.5146-02	.7575-02	1.031	7.093	543.2
184	209.80	.30000-01	698.00	.5632	.3996	.5077	.9634	.1893-01	.2405-01	2.166	14.71	550.1
184	209.80	.50000-01	699.00	.5147	.3698	.4835	.9582	.1752-01	.2291-01	2.068	13.14	546.5
184	209.80	.70000-01	700.00	.4951	.3381	.4886	.9514	.1602-01	.2315-01	1.679	11.28	559.7
184	209.80	.10000+00	701.00	.3388	.2403	.3617	.9423	.1138-01	.1714-01	1.300	8.274	550.3
184	209.80	.15000	702.00	.1514	.1093	.1788	.9301	.5180-02	.8471-02	.6200	4.436	544.9
184	209.80	.20000	703.00	.7830-01	.5840-01	.9690-01	.9219	.2766-02	.4590-02	.3610	2.422	534.0
184	209.80	.30000	704.00	.4660-01	.3460-01	.5950-01	.9187	.1640-02	.2820-02	.2120	1.510	535.4
184	209.80	.35000	705.00	.7010-01	.5210-01	.8940-01	.9187	.2470-02	.4238-02	.3200	2.205	534.9
184	209.80	.37500	706.00	.1119	.8190-01	.1453	.9187	.3879-02	.6886-02	.4800	3.307	540.8
184	209.80	.50000	707.00	.1699	.1196	.2306	.9187	.5668-02	.1093-01	.6360	4.345	552.2
184	209.80	.60000	708.00	.9740-01	.7170-01	.1256	.9187	.3399-02	.5951-02	.4290	2.743	538.5
184	209.80	.70000	709.00	.1087	.7940-01	.1415	.9187	.3762-02	.6703-02	.4640	2.963	541.3
184	209.80	.80000	710.00	.5570-01	.4140-01	.7090-01	.9187	.1963-02	.3360-02	.2550	1.600	534.6
184	209.80	.87000	711.00	.1015	.7440-01	.1317	.9187	.3523-02	.6239-02	.4370	2.773	540.4
184	217.70	.15000-01	713.00	.2257	.1671	.2897	.9185	.7917-02	.1373-01	1.013	7.014	536.6
184	217.70	.30000-01	714.00	.5354	.3816	.4878	.9621	.1808-01	.2311-01	2.092	14.22	548.8
184	217.70	.50000-01	715.00	.4972	.3586	.4718	.9570	.1699-01	.2235-01	2.025	13.22	545.3
184	217.70	.70000-01	716.00	.5281	.3532	.5270	.9502	.1673-01	.2497-01	1.678	11.35	564.2
184	217.70	.10000+00	717.00	.3189	.2303	.3421	.9412	.1091-01	.1621-01	1.306	8.480	544.9
184	217.70	.15000	718.00	.1804	.1290	.2161	.9292	.6111-02	.1024-01	.7130	5.213	547.9
184	217.70	.20000	719.00	.9170-01	.6840-01	.1137	.9214	.3243-02	.5386-02	.4250	2.888	533.3
184	217.70	.30000	720.00	.5190-01	.3830-01	.6670-01	.9185	.1816-02	.3161-02	.2310	1.662	537.2
184	217.70	.35000	721.00	.6410-01	.4770-01	.8190-01	.9185	.2258-02	.3880-02	.2920	2.039	535.0
184	217.70	.37500	722.00	.8320-01	.6150-01	.1068	.9185	.2915-02	.5060-02	.3720	2.593	536.8
184	217.70	.50000	723.00	.1455	.1041	.1943	.9185	.4930-02	.9207-02	.5750	3.968	548.0
184	217.70	.60000	724.00	.9570-01	.7050-01	.1236	.9185	.3340-02	.5855-02	.4210	2.703	538.5
184	217.70	.70000	725.00	.8180-01	.6020-01	.1056	.9185	.2854-02	.5005-02	.3600	2.295	538.5
184	217.70	.80000	726.00	.5850-01	.4340-01	.7470-01	.9185	.2057-02	.3541-02	.2660	1.680	535.3
184	217.70	.87000	727.00	.9800-01	.7140-01	.1280	.9185	.3382-02	.6064-02	.4140	2.653	542.1

IH41(AEDC VKIA-A4A) O T S (CONFIG 1) TANK DATA (RV7F25)

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = -5.000 BETA = -3.000 GRIT = 4.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
116	5.500	4.991	-4.420	2.600	31.00	177.9	.1910	740.0	105.0	4.050	2782.	.1528-03
151	5.500	4.956	-4.990	3.000	31.00	177.8	.1910	744.0	105.5	4.048	2768.	.1521-03
152	5.500	4.965	-5.020	3.000	31.00	178.0	.1910	743.0	105.4	4.050	2767.	.1523-03
153	5.500	4.988	-5.020	3.000	31.00	178.0	.1910	741.0	105.1	4.050	2782.	.1527-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
116	.8455-07	.4477-01	.1361-01
151	.8491-07	.4478-01	.1365-01
152	.8485-07	.4479-01	.1364-01
153	.8459-07	.4477-01	.1362-01

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
152	.00000	.30000-02	730.00	.3680	.2920	.3572	.9558	.1308-01	.1600-01	2.353	16.03	563.1
152	.00000	.10300-01	731.00	.7650-01	.6280-01	.9130-01	.9130	.2812-02	.4090-02	.5820	4.028	536.2
152	.00000	.15000-01	732.00	.4590-01	.3770-01	.5460-01	.9130	.1690-02	.2446-02	.3530	2.420	533.9
152	.00000	.25000-01	734.00	.5040-01	.4090-01	.5030-01	.9504	.1834-02	.2254-02	.3630	2.469	545.3
152	.00000	.30000-01	735.00	.1846	.1482	.1857	.9487	.6639-02	.8318-02	1.253	8.546	554.3
152	.00000	.40000-01	737.00	.3187	.2550	.3231	.9473	.1142-01	.1447-01	2.123	13.78	557.1
152	.00000	.45000-01	738.00	.3300	.2641	.3375	.9455	.1183-01	.1512-01	2.200	14.49	557.1
152	.00000	.60000-01	739.00	.3059	.2417	.3220	.9406	.1083-01	.1442-01	1.917	12.76	565.9
152	.00000	.70000-01	740.00	.2382	.1899	.2544	.9375	.8504-02	.1140-01	1.556	10.46	560.0
152	.00000	.80000-01	741.00	.1943	.1554	2106	.9346	.6962-02	.9433-02	1.292	9.347	557.4
152	.00000	.10000+00	742.00	.1571	.1266	.1746	.9292	.5670-02	.7818-02	1.086	7.236	551.6
152	.00000	.12500	743.00	.1048	.8440-01	.1202	.9234	.3779-02	.5385-02	.7210	5.225	552.3
152	.00000	.15000	744.00	.7790-01	.6310-01	.9120-01	.9188	.2826-02	.4083-02	.5540	3.851	547.0
152	.00000	.17500	745.00	.4030-01	.3290-01	.4790-01	.9154	.1473-02	.2144-02	.2960	2.228	542.2
152	.00000	.20000	746.00	.3590-01	.2930-01	.4300-01	.9133	.1313-02	.1924-02	.2670	1.913	540.1
152	.00000	.21500	747.00	.1890-01	.1540-01	.2260-01	.9130	.6907-03	.1013-02	.1400	.9760	539.9

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F25)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
152	.00000	.23000	748.00	.1500-01	.1230-01	.1800-01	.9130	.5492-03	.8059-03	.1110	.8270	540.1
152	.00000	.24000	749.00	.1050-01	.8600-02	.1260-01	.9130	.3834-03	.5622-03	.7800-01	.5900	539.8
152	.00000	.30000	751.00	.6200-02	.5000-02	.7400-02	.9130	.2251-03	.3306-03	.4600-01	.3000	540.5
152	.00000	.35000	752.00	.2120-01	.1730-01	.2550-01	.9130	.7745-03	.1141-02	.1560	.9880	541.8
152	.00000	.40000	753.00	.4480-01	.3640-01	.5390-01	.9130	.1631-02	.2416-02	.3250	2.090	544.0
152	.00000	.50000	754.00	.3640-01	.2950-01	.4400-01	.9130	.1320-02	.1972-02	.2580	1.699	547.5
152	.00000	.60000	755.00	.3500-01	.2850-01	.4230-01	.9130	.1275-02	.1893-02	.2520	1.620	545.1
152	.00000	.70000	756.00	.3580-01	.2910-01	.4310-01	.9130	.1304-02	.1930-02	.2600	1.720	543.6
152	.00000	.80000	757.00	.3160-01	.2580-01	.3780-01	.9130	.1156-02	.1695 02	.2350	1.476	539.9
152	.00000	.90000	758.00	.2250-01	.1850-01	.2690-01	.9130	.8264-03	.1205-02	.1700	1.105	537.2
152	55.000	.22000	759.00	.3080-01	.2520-01	.3680-01	.9137	.1128-02	.1650-02	.2280	1.705	540.4
152	55.000	.25000	760.00	.1300-01	.1060-01	.1550-01	.9130	.4753-03	.6944-03	.9700-01	.7660	538.2
152	55.000	.27000	761.00	.1350-01	.1110-01	.1620-01	.9130	.4955-03	.7248-03	.1010	.7560	538.7
152	55.000	.30000	762.00	.3340-01	.2730-01	.4010-01	.9130	.1221-02	.1795-02	.2470	1.486	541.1
152	55.000	.32000	763.00	.4050-01	.3300-01	.4870-01	.9130	.1479-02	.2181-02	.2970	1.761	542.2
152	55.000	.34000	764.00	.3870-01	.3160-01	.4660-01	.9130	.1414-02	.2085-02	.2840	1.668	542.3
152	55.000	.36000	765.00	.6900-01	.5600-01	.8340-01	.9130	.2508-02	.3734-02	.4940	2.971	546.1
152	55.000	.38000	766.00	.6480-01	.5260-01	.7820-01	.9130	.2357-02	.3504-02	.4650	2.831	545.6
152	55.000	.40000	767.00	.3550-01	.2900-01	.4260-01	.9130	.1297-02	.1910-02	.2610	1.536	541.6
152	67.500	.23000	768.00	.2090-01	.1710-01	.2510-01	.9135	.7658-03	.1123-02	.1550	1.156	540.8
152	67.500	.25000	769.00	.1500-01	.1230-01	.1800-01	.9131	.5504-03	.8058-03	.1120	.8760	539.2
152	67.500	.27000	770.00	.2250-01	.1840-01	.2690-01	.9131	.8231-03	.1206-02	.1670	1.226	539.6
152	67.500	.29000	771.00	.2990-01	.2440-01	.3590-01	.9131	.1094-02	.1610-02	.2210	1.370	541.5
152	67.500	.30000	772.00	.5540-01	.4500-01	.6670-01	.9131	.2016-02	.2988-02	.4000	2.448	544.6
152	67.500	.31000	773.00	.6280-01	.5110-01	.7570-01	.9131	.2288-02	.3391-02	.4550	2.760	544.3
152	67.500	.32000	774.00	.8260-01	.6690-01	.9990-01	.9131	.2997-02	.4475-02	.5860	3.523	547.5
152	67.500	.32500	775.00	.9970-01	.8050-01	.1210	.9131	.3607-02	.5418-02	.6970	4.196	549.8
152	67.500	.33000	776.00	.1132	.9120-01	.1378	.9131	.4086-02	.6170-02	.7810	4.711	551.8
152	67.500	.33500	777.00	.1278	.1027	.1560	.9131	.4600-02	.6989-02	.8690	5.235	554.1
152	67.500	.34000	778.00	.1304	.1047	.1593	.9131	.4688-02	.7133-02	.8830	5.319	554.8
152	67.500	.34500	779.00	.1269	.1018	.1550	.9131	.4560-02	.6944-02	.8580	5.179	554.9
152	67.500	.35000	780.00	.1195	.9600-01	.1459	.9131	.4300-02	.6537-02	.8120	4.915	554.3
152	67.500	.35500	781.00	.1203	.9650-01	.1470	.9131	.4323-02	.6582-02	.8130	4.937	554.9
152	67.500	.36000	782.00	.1137	.9150-01	.1386	.9131	.4100-02	.6206-02	.7800	4.740	552.8
152	67.500	.36500	783.00	.9990-01	.8060-01	.1212	.9131	.3612-02	.5429-02	.6970	4.231	550.0
152	67.500	.37000	784.00	.7450-01	.6030-01	.9020-01	.9131	.2699-02	.4039-02	.5250	3.208	548.4
152	67.500	.37500	785.00	.6300-01	.5110-01	.7610-01	.9131	.2289-02	.3406-02	.4510	2.779	546.1
152	67.500	.38000	786.00	.5170-01	.4200-01	.6230-01	.9131	.1882-02	.2793 02	.3730	2.306	544.9
152	67.500	.39000	787.00	.4240-01	.3460-01	.5100-01	.9131	.1548-02	.2284-02	.3100	1.926	542.7
152	67.500	.40000	788.00	.3740-01	.3050-01	.4490-01	.9131	.1369-02	.2011-02	.2770	1.735	540.8
152	67.500	.50000	789.00	.8300-02	.6800-02	.9900-02	.9131	.3032-03	.4429-03	.6200-01	.4000	538.3
153	67.500	.60000	790.00	.5700-02	.4700-02	.6800-02	.9131	.2084-03	.3063-03	.4200-01	.2770	540.9
153	67.500	.70000	791.00	.1910-01	.1550-01	.2300-01	.9131	.6959-03	.1030-02	.1390	.9800	543.9

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F25)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
153	67.500	.80000	792.00	.2430-01	.1980-01	.2920-01	.9131	.8879-03	.1309-02	.1780	1.123	542.2
153	67.500	.90000	793.00	.7600-02	.6200-02	.9200-02	.9131	.2772-03	.4133-03	.5400-01	.3510	546.8
153	78.000	.27000	794.00	.2620-01	.2130-01	.3130-01	.9133	.9561-03	.1404-02	.1930	1.381	541.1
153	78.000	.29000	795.00	.5220-01	.4200-01	.6330-01	.9141	.1881-02	.2834-02	.3570	2.194	553.2
153	78.000	.30000	796.00	.1349	.1077	.1656	.9133	.4824-02	.7413-02	.8870	5.349	556.9
153	78.000	.31000	797.00	.1854	.1464	.2304	.9133	.6553-02	.1032-01	1.154	6.932	564.7
153	78.000	.32000	798.00	.2064	.1624	.2577	.9133	.7270-02	.1154-01	1.263	7.536	567.1
153	78.000	.32500	799.00	.2046	.1609	.2554	.9133	.7205-02	.1143-01	1.251	7.485	567.1
153	78.000	.33000	800.00	.1971	.1552	.2457	.9133	.6948-02	.1100-01	1.211	7.247	566.5
153	78.000	.33500	801.00	.1928	.1513	.2414	.9133	.6775-02	.1081-01	1.166	6.969	569.7
153	78.000	.34000	802.00	.1720	.1350	.2153	.9133	.6043-02	.9640-02	1.040	6.219	568.6
153	78.000	.34500	803.00	.2190	.1720	.2738	.9133	.7702-02	.1226-01	1.331	7.981	569.0
153	78.000	.35000	804.00	.2359	.1862	.2933	.9133	.8337-02	.1313-01	1.466	8.809	564.8
153	78.000	.35500	805.00	.1903	.1506	.2360	.9133	.6743-02	.1056-01	1.197	7.198	563.2
153	78.000	.36000	806.00	.1495	.1189	.1844	.9133	.5322-02	.8257-02	.9620	5.800	560.1
153	78.000	.36500	807.00	.1498	.1196	.1839	.9133	.5354-02	.8233-02	.9830	5.961	557.1
153	78.000	.37000	808.00	.1112	.8920-01	.1356	.9133	.3995-02	.6072-02	.7500	4.571	553.0
153	78.000	.37500	809.00	.8810-01	.7090-01	.1076	.9133	.3175-02	.4792-02	.6040	3.687	550.4
153	78.000	.38000	810.00	.6500-01	.5250-01	.7660-01	.9133	.2352-02	.3520-02	.4550	2.798	547.2
153	78.000	.39000	811.00	.4320-01	.3510-01	.5210-01	.9133	.1573-02	.2331-02	.3110	1.918	543.2
153	78.000	.40000	812.00	.3150-01	.2570-01	.3790-01	.9133	.1150-02	.1695-02	.2300	1.419	541.1
116	90.000	.40000-01	985.00	.4789	.3790	.4553	.9598	.1697-01	.2038-01	3.012	19.44	562.9
116	90.000	.50000-01	986.00	.4009	.3185	.3883	.9563	.1426-01	.1738-01	2.566	16.48	560.4
116	90.000	.60000-01	987.00	.3849	.2986	.3787	.9528	.1337-01	.1695-01	2.205	14.31	575.4
116	90.000	.70000-01	988.00	.3644	.2835	.3655	.9495	.1269-01	.1636-01	2.117	14.04	573.6
116	90.000	.80000-01	989.00	.3120	.2438	.3187	.9463	.1091-01	.1427-01	1.849	12.95	571.0
116	90.000	.10000+00	990.00	.2544	.2017	.2682	.9402	.9028-02	.1201-01	1.613	10.44	561.8
116	90.000	.15000	991.00	.1369	.1089	.1[illegible]	.9272	.4876-02	.6940-02	.8340	6.451	559.1
153	90.000	.20000	813.00	.4290-01	.3490-01	.[illegible]-01	.9145	.1561-02	.2299-02	.3080	2.246	543.2
153	90.000	.24000	814.00	.3630-01	.2950-01	.43[illegible]-01	.9137	.1319-02	.1950-02	.2600	2.110	543.3
153	90.000	.27000	816.00	.2930-01	.2380-01	.35[illegible]-01	.9137	.1065-02	.1575-02	.2110	1.500	543.0
153	90.000	.29000	817.00	.1488	.1175	.1844	.9137	.5260-02	.8257-02	.9210	5.707	564.6
153	90.000	.30000	818.00	.3159	.2403	.4096	.9137	.1076-01	.1834-01	1.564	9.975	586.0
153	90.000	.31000	819.00	.3352	.2553	.4307	.9137	.1150-01	.1928-01	1.821	10.85	582.4
153	90.000	.32000	820.00	.3138	.2411	.4018	.9137	.1080-01	.1799-01	1.726	10.26	580.8
153	90.000	.32500	821.00	.3148	.2422	.4025	.9137	.1084-01	.1802-01	1.740	10.32	580.3
153	90.000	.33000	822.00	.3031	.2319	.3901	.9137	.1038-01	.1747-01	1.636	9.715	593.1
153	90.000	.33500	823.00	.2357	.1781	.3080	.9137	.7975-02	.1379-01	1.319	7.178	589.1
153	90.000	.34000	824.00	.4284	.3191	.5702	.9137	.1428-01	.2553-01	2.[illegible]	12.20	595.6
153	90.000	.34500	825.00	.4969	.3631	.6784	.9137	.1626-01	.3037-01	2.237	13.15	60[illegible].2
153	90.000	.35000	826.00	.6180	.4308	.9027	.9137	.1929-01	.4042-01	2.359	13.77	618.4
153	90.000	.36000	828.00	.3420	.2555	.4537	.9137	.1144-01	.2031-01	1.673	9.852	594.4
153	90.000	.36500	829.00	.1461	.1152	.1916	.9137	.5156-02	.8129-02	.9010	5.396	565.9

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7#25)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
153	90.000	.37000	830.00	.1446	.1162	.1758	.9137	.5203-02	.7872-02	.9810	5.933	552.1
153	90.000	.37500	831.00	.1003	.8130-01	.1209	.9137	.3639-02	.5412-02	.7100	4.329	545.7
153	90.000	.38000	832.00	.6380-01	.5180-01	.7670-01	.9137	.2320-02	.3434-02	.4580	2.793	543.6
153	90.000	.39000	833.00	.6570-01	.5320-01	.7940-01	.9137	.2390-02	.3553-02	.4610	2.842	547.0
153	90.000	.40000	834.00	.7080-01	.5720-01	.8560-01	.9137	.2562-02	.3832-02	.4942	3.054	547.8
153	90.000	.50000	835.00	.2990-01	.2420-01	.3590-01	.9137	.1085-02	.1609-02	.2130	1.350	544.2
153	90.000	.60000	836.00	.2950-01	.2380-01	.3570-01	.9137	.1066-02	.1596-02	.2050	1.367	548.2
153	90.000	.70000	837.00	.5660-01	.4550-01	.6870-01	.9137	.2036-02	.3076-02	.3850	2.705	551.6
153	90.000	.80000	838.00	.8360-01	.6750-01	.1013	.9137	.3021-02	.4534-02	.5790	3.594	549.1
153	90.000	.90000	839.00	.2520-01	.2010-01	.3080-01	.9137	.8998-03	.1380-02	.1650	1.051	557.0
153	112.50	.23000	840.00	.4900-01	.3970-01	.5840-01	.9155	.1777-02	.2615-02	.3470	2.802	545.3
153	112.50	.25000	841.00	.2660-01	.2160-01	.3190-01	.9144	.9688-03	.1428-02	.1910	1.483	543.5
153	112.50	.30000	843.00	.9460-01	.7620-01	.1143	.9144	.3411-02	.5115-02	.6490	3.852	550.6
153	112.50	.33000	844.00	.1813	.1437	.2228	.9144	.6435-02	.9973-02	1.149	6.876	562.1
153	112.50	.35000	845.00	.2406	.1880	.3004	.9144	.8418-02	.1345-01	1.426	8.635	571.3
153	112.50	.37000	846.00	.1905	.1508	.2343	.9144	.6752-02	.1049-01	1.201	7.342	562.9
153	112.50	.40000	847.00	.8920-01	.7210-01	.1072	.9144	.3227-02	.4800-02	.6240	3.888	547.3
153	112.50	.45000	848.00	.6530-01	.5300-01	.7820-01	.9144	.2372-02	.3503-02	.4660	2.930	544.4
153	112.50	.50000	849.00	.5140-01	.4170-01	.6170-01	.9144	.1865-02	.2763-02	.3640	2.341	545.7
153	112.50	.55000	850.00	.5320-01	.4310-01	.6380-01	.9144	.1930-02	.2855-02	.3770	2.524	545.2
153	112.50	.60000	851.00	.5680-01	.4600-01	.6820-01	.9144	.2060-02	.3055-02	.4010	2.688	546.1
153	112.50	.65000	852.00	.8000-01	.6430-01	.9680-01	.9144	.2879-02	.4335-02	.5430	3.684	552.1
153	112.50	.70000	853.00	.1168	.9340-01	.1422	.9144	.4180-02	.6366-02	.7710	5.387	556.2
153	112.50	.75000	854.00	.8750-01	.7040-01	.1058	.9144	.3151-02	.4738-02	.5960	3.858	551.6
153	112.50	.80000	855.00	.9170-01	.7390-01	.1107	.9144	.3308-02	.4957-02	.6300	4.091	550.3
153	112.50	.90000	856.00	.1273	.1018	.1550	.9144	.4555-02	.6939-02	.8400	5.425	556.3
153	125.40	.84000	857.00	.6630-01	.5350-01	.7960-01	.9148	.2394-02	.3566-02	.4600	2.838	548.7
153	125.40	.85000	858.00	.6600-01	.5330-01	.7930-01	.9148	.2387-02	.3549-02	.4600	2.856	548.1
153	125.40	.86000	859.00	.5870-01	.4750-01	.7040-01	.9148	.2125-02	.3153-02	.4110	2.577	547.2
153	125.40	.87000	860.00	.5520-01	.4460-01	.6620-01	.9148	.1997-02	.2965-02	.3860	2.424	547.5
153	125.40	.88000	861.00	.6470-01	.5230-01	.7780-01	.9148	.2340-02	.3482-02	.4500	2.826	548.4
153	125.40	.89000	862.00	.9030-01	.7260-01	.1090	.9148	.3249-02	.4880-02	.6130	3.835	552.0
153	125.40	.90000	863.00	.1172	.9430-01	.1414	.9148	.4224-02	.6329-02	.8010	5.084	551.0
153	125.40	.91000	864.00	.1484	.1187	.1800	.9148	.5315-02	.8060-02	.9850	7.131	555.4
153	125.40	.92600	865.00	.2000	.1579	.2461	.9148	.7070-02	.1102-01	1.245	9.944	564.6
153	129.30	.81000	867.00	.4880-01	.3960-01	.5840-01	.9149	.1769-02	.2613-02	.3450	2.158	545.7
153	129.30	.82000	868.00	.5420-01	.4400-01	.6480-01	.9149	.1969-02	.2901-02	.3860	2.416	544.5
153	129.30	.83000	869.00	.5790-01	.4680-01	.6950-01	.9149	.2095-02	.3112-02	.4040	2.531	547.9
153	135.00	.40000-01	870.00	.4408	.3469	.4075	.9651	.1553-01	.1825-01	2.702	17.20	566.8
153	135.00	.50000-01	871.00	.4484	.3548	.4227	.9615	.1588-01	.1892-01	2.818	17.86	563.3
153	135.00	.60000-01	872.00	.4283	.3297	.4087	.9580	.1476-01	.1830-01	2.375	15.51	579.9
153	135.00	.70000-01	873.00	.3853	.2980	.3751	.9546	.1334-01	.1680-01	2.162	14.62	577.2
153	135.00	.10000+00	875.00	.2766	.2188	.2841	.9450	.9794-02	.1272-01	1.734	11.28	563.7

ORIGINAL PAGE IS
OF POOR QUALITY

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F25)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
153	135.00	.15000	876.00	.1756	.1389	.1949	.9312	.6217-02	.8726-02	1.102	7.994	563.5
153	135.00	.20000	877.00	.9410-01	.7590-01	.1095	.9206	.3397-02	.4905-02	.6500	4.377	549.4
153	135.00	.35000	878.00	.8290-01	.6700-01	.9950-01	.9150	.2998-02	.4453-02	.5780	3.587	548.1
153	135.00	.40000	879.00	.7380-01	.5960-01	.8840-01	.9150	.2669-02	.3959-02	.5160	3.269	547.5
153	135.00	.50000	880.00	.1008	.8060-01	.1224	.9150	.3607-02	.5479-02	.6650	4.544	556.4
153	135.00	.55000	881.00	.1187	.9490-01	.1442	.9150	.4247-02	.6454-02	.7820	5.183	556.6
153	135.00	.60000	882.00	.1177	.9430-01	.1425	.9150	.4222-02	.6378-02	.7860	5.265	554.5
153	135.00	.65000	883.00	.9670-01	.7760-01	.1168	.9150	.3473-02	.5230-02	.6510	4.430	553.2
153	135.00	.70000	884.00	.6840-01	.5520-01	.8220-01	.9150	.2473-02	.3678-02	.4750	3.375	548.6
153	135.00	.75000	885.00	.6010-01	.4860-01	.7210-01	.9150	.2175-02	.3226-02	.4200	2.648	547.5
153	135.00	.80000	886.00	.6270-01	.5080-01	.7500-01	.9150	.2273-02	.3356-02	.4430	2.787	545.7
153	135.00	.84000	887.00	.8090-01	.6500-01	.9760-01	.9150	.2908-02	.4368-02	.5480	3.434	552.3
116	135.00	.85000	888.00	.1014	.8130-01	.1229	.9146	.3639-02	.5502-02	.6800	4.292	553.7
116	135.00	.86000	889.00	.6910-01	.5570-01	.8330-01	.9146	.2493-02	.3731-02	.4750	3.000	549.8
116	135.00	.87000	890.00	.7690-01	.6210-01	.9260-01	.9146	.2778-02	.4146-02	.5320	3.380	548.8
116	135.00	.88000	891.00	.8150-01	.6580-01	.9810-01	.9146	.2944-02	.4394-02	.5640	3.603	548.8
116	135.00	.89000	892.00	.9480-01	.7630-01	.1143	.9146	.3417-02	.5116-02	.6500	4.224	550.9
116	135.00	.90000	893.00	.1109	.8920-01	.1340	.9146	.3991-02	.5998-02	.7540	4.953	551.4
116	135.00	.91000	894.00	.8030-01	.6440-01	.9720-01	.9146	.2885-02	.4353-02	.5410	3.932	553.0
116	135.00	.92600	895.00	.1029	.8160-01	.1263	.9146	.3651-02	.5653-02	.6520	4.702	561.9
116	135.00	.95000	896.00	.7890-01	.6400-01	.9460-01	.9146	.2864-02	.4233-02	.5600	4.049	544.9
116	142.30	.42000	897.00	.9570-01	.7660-01	.1161	.9147	.3430-02	.5197-02	.6370	4.081	554.6
116	142.30	.43500	898.00	.1854	.1468	.2278	.9147	.6571-02	.1020-01	1.168	7.238	562.7
116	142.30	.45000	899.00	.1591	.1266	.1944	.9147	.5669-02	.8701-02	1.028	6.684	559.1
116	142.30	.50000	900.00	.1622	.1283	.1993	.9147	.5745-02	.8920-02	1.019	6.736	562.9
116	142.30	.60000	901.00	.1013	.8140-01	.1225	.9147	.3645-02	.5483-02	.6870	4.550	551.9
116	142.30	.70000	902.00	.9120-01	.7330-01	.1101	.9147	.3281-02	.4930-02	.6200	4.220	551.5
116	142.30	.80000	903.00	.8510-01	.6880-01	.1023	.9147	.3078-02	.4577-02	.5940	3.771	547.5
116	142.30	.87000	904.00	.9080-01	.7300-01	.1097	.9147	.3268-02	.4912-02	.6170	3.889	551.6
116	154.98	.42000	905.00	.1367	.1087	.1671	.9147	.4868-02	.7478-02	.8810	5.645	559.4
116	154.98	.43500	906.00	.1420	.1133	.1728	.9147	.5072-02	.7737-02	.9300	6.000	557.1
116	154.98	.45000	907.00	.1265	.1012	.1536	.9147	.4531-02	.6878-02	.8390	5.448	555.3
116	154.98	.50000	908.00	.1448	.1150	.1771	.9147	.5150-02	.7929-02	.9280	6.594	560.2
116	154.98	.93500	913.00	.3577	.2703	.4638	.9147	.1210-01	.2076-01	1.831	13.04	589.0
116	154.98	.94500	914.00	.1167	.9080-01	.1461	.9147	.4067-02	.6542-02	.6790	4.823	573.5
116	157.50	.80000-01	919.00	.3343	.2615	.3336	.9504	.1171-01	.1493-01	1.990	13.42	570.4
116	157.50	.20000	922.00	.8740-01	.7050-01	.1021	.9200	.3155-02	.4570-02	.6040	4.016	549.1
116	157.50	.42000	923.00	.1555	.1240	.1895	.9147	.5552-02	.8484-02	1.015	6.588	557.5
116	157.50	.43500	924.00	.1460	.1161	.1785	.9147	.5199-02	.7992-02	.9400	6.111	559.6
116	157.50	.45000	925.00	.1390	.1104	.1702	.9147	.4940-02	.7621-02	.8870	5.817	560.8
116	157.50	.85000	926.00	.6000-01	.4840-01	.7220-01	.9147	.2165-02	.3231-02	.4150	2.691	548.8
116	157.50	.86000	927.00	.6040-01	.4880-01	.7260-01	.9147	.2185-02	.3249-02	.4220	2.733	547.4
116	157.50	.87000	928.00	.5930-01	.4790-01	.7140-01	.9147	.2142-02	.3198-02	.4100	2.664	549.0

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F25)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
116	157.50	.88000	929.00	.1035	.8320-01	.1251	.9147	.3723-02	.5599-02	.7020	4.582	551.8
116	157.50	.89000	930.00	.1169	.9350-01	.1419	.9147	.4185-02	.6354-02	.7750	5.077	555.3
116	157.50	0000	931.00	.1052	.8400-01	.1280	.9147	.3762-02	.5730-02	.6920	4.644	556.4
116	157.50	.91000	932.00	.7350-01	.5830-01	.9010-01	.9147	.2610-02	.4035-02	.4670	3.393	561.5
116	157.50	.92600	933.00	.1077	.8290-01	.1366	.9147	.3710-02	.6115-02	.5960	4.276	579.8
116	163.12	.41500	934.00	.1244	.9990-01	.1507	.9146	.4471-02	.6744-02	.8390	5.426	552.8
116	163.12	.42000	935.00	.1359	.1086	.1654	.9146	.4860-02	.7405-02	.8940	5.220	556.5
116	163.12	.43000	937.00	.2129	.1674	.2637	.9146	.7492-02	.1181-01	1.297	8.422	567.3
116	163.12	.44000	938.00	.2883	.2233	.3631	.9146	.9996-02	.1626-01	1.641	10.58	576.2
116	163.12	.44500	939.00	.2708	.2097	.3413	.9146	.9387-02	.1528-01	1.540	10.07	576.4
116	163.12	.45000	940.00	.2408	.1879	.3007	.9146	.8409-02	.1346-01	1.417	9.289	572.0
116	163.12	.50000	941.00	.1156	.9200-01	.1413	.9146	.4119-02	.6327-02	.7460	5.031	559.2
116	163.12	.60000	942.00	.8610-01	.6910-01	.1042	.9146	.3093-02	.4664-02	.5810	3.732	552.7
116	163.12	.70000	943.00	.7180-01	.5810-01	.8630-01	.9146	.2596-02	.3863-02	.5010	3.435	547.6
116	163.12	.80000	944.00	.6140-01	.4980-01	.7350-01	.9146	.2227-02	.3292-02	.4350	2.844	544.9
116	168.00	.35000	945.00	.5810-01	.4720-01	.6960-01	.9145	.2111-02	.3115-02	.4150	2.632	544.0
116	168.00	.36000	946.00	.5240-01	.4250-01	.6290-01	.9145	.1903-02	.2814-02	.3720	2.366	545.0
116	168.00	.37000	947.00	.4600-01	.3720-01	.5530-01	.9145	.1665-02	.2475-02	.3220	2.052	547.1
116	168.00	.37500	948.00	.5440-01	.4400-01	.6540-01	.9145	.1969-02	.2929-02	.3800	2.425	547.2
116	168.00	.38500	950.00	.9650-01	.7800-01	.1161	.9145	.3492-02	.5196-02	.6740	4.346	547.4
116	168.00	.39000	951.00	.1169	.9410-01	.1413	.9145	.4212-02	.6324-02	.7980	5.166	550.9
116	168.00	.39500	952.00	.1133	.9120-01	.1367	.9145	.4084-02	.6121-02	.7760	4.955	550.3
116	168.00	.40000	953.00	.9780-01	.7880-01	.1180	.9145	.3527-02	.5281-02	.6720	4.365	549.9
116	168.00	.40500	954.00	.1013	.8150-01	.1224	.9145	.3649-02	.5479-02	.6910	4.502	550.9
116	168.00	.41000	955.00	.1029	.8260-01	.1246	.9145	.3698-02	.5579-02	.6940	4.514	552.7
116	168.00	.41500	956.00	.1274	.1018	.1550	.9145	.4559-02	.6940-02	.8410	5.477	556.0
116	168.00	.42000	957.00	.1619	.1287	.1983	.9145	.5760-02	.8875-02	1.038	6.769	560.1
116	168.00	.42500	958.00	.1599	.1269	.1960	.9145	.5681-02	.8774-02	1.020	6.647	560.9
116	168.00	.43000	959.00	.2723	.2103	.3344	.9145	.9412-02	.1542-01	1.529	9.852	577.9
116	168.00	.44000	960.00	.2847	.2209	.3581	.9145	.9887-02	.1603-01	1.632	10.56	575.3
116	168.00	.44500	961.00	.2637	.2113	.3355	.9145	.9458-02	.1502-01	1.616	10.49	569.5
116	168.00	.45000	962.00	.2386	.1875	.2958	.9145	.8392-02	.1324-01	1.450	9.471	567.7
116	168.00	.45500	963.00	.2065	.1620	.2563	.9145	.7252-02	.1147-01	1.247	8.144	568.4
116	168.00	.46000	964.00	.1927	.1505	.2405	.9145	.6737-02	.1077-01	1.139	7.473	571.3
116	168.00	.47000	965.00	.1866	.1466	.2314	.9145	.6565-02	.1036-01	1.134	7.477	567.6
116	168.00	.48000	966.00	.1534	.1214	.1886	.9145	.5436-02	.8442-02	.9660	6.443	562.7
116	168.00	.49000	967.00	.1181	.9470-01	.1433	.9145	.4238-02	.6414-02	.7900	5.294	553.9
116	168.00	.85000	968.00	.5360-01	.4330-01	.6450-01	.9145	.1939-02	.2887-02	.3740	2.424	547.6
116	168.00	.86000	969.00	.4750-01	.3830-01	.5720-01	.9145	.1714-02	.2560-02	.3280	2.132	548.9
116	168.00	.87000	970.00	.5100-01	.4100-01	.6150-01	.9145	.1837-02	.2754-02	.3490	2.271	550.5
116	168.00	.88000	971.00	.1114	.8920-01	.1354	.9145	.3992-02	.6059-02	.7400	4.823	555.0
116	168.00	.89000	972.00	.1290	.1028	.1574	.9145	.4601-02	.7045-02	.8390	5.541	558.0
116	168.00	.90000	973.00	.1347	.1069	.1653	.9145	.4785-02	.7400-02	.8570	5.788	561.3

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F25)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TH DEG. R
116	168.00	.91000	974.00	.1025	.8060-01	.1270	.9145	.3610-02	.5684-02	.6260	4.521	567.0
116	168.00	.92600	975.00	.6250-01	.4710-01	.8140-01	.9145	.2107-02	.3644-02	.3160	2.242	590.4
116	168.00	.95000	976.00	.9530-01	.7710-01	.1144	.9145	.3450-02	.5120-02	.6690	4.820	546.4
116	180.00	.20000-01	982.00	.2780	.2243	.2558	.9681	.1004-01	.1145-01	1.924	13.36	548.8
116	180.00	.25000-01	983.00	.7169	.5548	.6553	.9661	.2484-01	.2934-01	4.068	27.69	576.6
116	180.00	.30000-01	984.00	.7597	.5867	.7002	.9644	.2626-01	.3134-01	4.268	28.85	577.9
151	180.00	.40000-01	600.00	.4961	.3911	.4618	.9638	.1751-01	.2068-01	3.076	19.57	567.9
151	180.00	.50000-01	601.00	.4417	.3506	.4193	.9603	.1570-01	.1877-01	2.831	18.11	563.2
151	180.00	.60000-01	602.00	.4143	.3208	.3985	.9568	.1436-01	.1784-01	2.365	15.50	578.9
151	180.00	.70000-01	603.00	.3722	.2891	.3650	.9534	.1295-01	.1634-01	2.156	14.49	577.0
151	180.00	.80000-01	604.00	.3537	.2773	.3534	.9501	.1242-01	.1583-01	2.137	13.73	571.4
151	180.00	.10000+00	605.00	.2499	.1981	.2581	.9439	.8869-02	.1156-01	1.591	11.32	564.2
151	180.00	.15000	606.00	.1557	.1240	.1732	.9302	.5551-02	.7757-02	1.013	7.311	561.1
151	180.00	.20000	607.00	.8390-01	.6800-01	.9780-01	.9199	.3044-02	.4378-02	.5950	3.880	548.1
151	180.00	.21000	608.00	.6750-01	.5480-01	.7910-01	.9183	.2452-02	.3541-02	.4840	3.347	546.0
151	180.00	.22000	609.00	.3520-01	.4480-01	.6510-01	.9169	.2008-02	.2917-02	.3980	2.963	545.3
151	180.00	.30000	610.00	.4520-01	.3670-01	.5390-01	.9146	.1645-02	.2415-02	.3270	2.244	544.4
151	180.00	.35000	611.00	.4910-01	.3990-01	.5870-01	.9146	.1787-02	.2628-02	.3550	2.364	545.1
151	180.00	.36000	612.00	.3950-01	.3200-01	.4740-01	.9146	.1434-02	.2123-02	.2800	1.883	548.0
151	180.00	.37000	613.00	.4340-01	.3510-01	.5210-01	.9146	.1572-02	.2331-02	.3060	2.057	548.7
151	180.00	.37500	614.00	.7050-01	.5700-01	.8490-01	.9146	.2551-02	.3800-02	.4930	3.306	550.4
151	180.00	.38000	615.00	.1147	.9250-01	.1382	.9146	.4142-02	.6189-02	.7950	5.333	551.6
151	180.00	.38500	616.00	.1072	.8640-01	.1292	.9146	.3867-02	.5785-02	.7410	4.964	552.0
151	180.00	.39000	617.00	.9110-01	.7340-01	.1098	.9146	.3289-02	.4918-02	.6300	4.212	551.9
151	180.00	.39500	618.00	.8460-01	.6830-01	.1023	.9146	.3057-02	.4583-02	.5830	3.918	552.9
151	180.00	.40000	619.00	.8910-01	.7160-01	.1077	.9146	.3207-02	.4822-02	.6080	4.059	554.0
151	180.00	.40500	620.00	.1096	.8770-01	.1330	.9146	.3928-02	.5958-02	.7380	4.895	557.2
151	180.00	.41000	621.00	.1488	.1184	.1819	.9146	.5301-02	.8143-02	.9840	6.433	561.6
151	180.00	.41500	622.00	.1799	.1423	.2215	.9146	.6370-02	.9917-02	1.131	7.505	565.0
151	180.00	.42500	624.00	.2415	.1885	.3015	.9146	.8638-02	.1350-01	1.429	9.445	574.2
151	180.00	.43000	625.00	.2915	.2254	.3680	.9146	.1009-01	.1648-01	1.654	10.94	579.7
151	180.00	.44000	626.00	.3413	.2571	.4445	.9146	.1151-01	.1990-01	1.734	11.39	592.9
151	180.00	.44500	627.00	.2996	.2254	.3306	.9146	.1009-01	.1749-01	1.516	10.04	583.4
151	180.00	.45000	628.00	.2455	.1876	.3143	.9146	.8400-02	.1407-01	1.323	8.802	585.0
151	180.00	.45500	629.00	.1983	.1541	.2489	.9146	.6899-02	.1115-01	1.150	7.803	576.9
151	180.00	.46000	630.00	.1651	.1302	.2036	.9146	.5832-02	.9116-02	1.028	6.839	567.3
151	180.00	.47000	631.00	.1070	.8599-01	.1294	.9146	.3848-02	.5795-02	.7270	4.868	554.6
151	180.00	.48000	632.00	.7370-01	.6400-01	.9630-01	.9146	.2867-02	.4313-02	.5430	3.660	554.1
151	180.00	.50000	634.00	.1027	.8080-01	.1271	.9146	.3620-02	.5693-02	.6310	4.366	563.2
151	180.00	.55000	635.00	.1199	.9560-01	.1463	.9146	.4280-02	.6549-02	.7840	5.173	560.3
151	180.00	.60000	636.00	.1320	.1058	.1601	.9146	.4738-02	.7168-02	.8880	5.697	556.2
151	180.00	.65000	637.00	.8770-01	.7040-01	.1061	.9146	.3153-02	.4750-02	.5960	3.837	564.7
151	180.00	.70000	638.00	.7610-01	.6140-01	.9160-01	.9146	.2750-02	.4102-02	.5300	3.620	560.9

(IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
151	180.00	.75000	639.00	.7200-01	.5830-01	.8630-01	.9146	.2611-02	.3863-02	.5110	3.296	547.7
151	180.00	.80000	640.00	.6730-01	.5460-01	.8070-01	.9146	.2443-02	.3613-02	.4790	3.003	547.3
151	180.00	.85000	641.00	.5530-01	.4460-01	.6660-01	.9146	.1999-02	.2981-02	.3850	2.430	550.8
151	180.00	.85000	642.00	.6490-01	.5220-01	.7830-01	.9146	.2337-02	.3506-02	.4450	2.847	553.0
151	180.00	.87000	643.00	.8720-01	.6990-01	.1058	.9146	.3131-02	.4737-02	.5860	3.763	556.3
151	180.00	.88000	644.00	.1330	.1061	.1622	.9146	.4749-02	.7262-02	.8710	5.631	560.1
151	180.00	.89000	645.00	.1556	.1236	.1904	.9146	.5535-02	.8526-02	1.002	6.543	562.5
151	180.00	.90000	646.00	.1410	.1120	.1728	.9146	.5013-02	.7736-02	.9040	6.028	563.2
151	180.00	.92600	648.00	.8450-01	.6290-01	.1117	.9146	.2818-02	.4939-02	.4100	2.916	598.0
151	180.00	.95000	649.00	.4790-01	.3900-01	.5700-01	.9146	.1748-02	.2552-02	.3520	2.552	541.9
151	191.25	.35000	650.00	.5050-01	.4100-01	.6060-01	.9142	.1834-02	.2714-02	.3610	2.423	546.9
151	191.25	.36000	651.00	.4580-01	.3710-01	.5500-01	.9142	.1660-02	.2461-02	.3250	2.192	547.6
151	191.25	.37000	652.00	.1000+00	.8060-01	.1206	.9142	.3610-02	.5402-02	.6940	4.655	551.3
151	191.25	.37500	653.00	.1230	.9890-01	.1489	.9142	.4431-02	.6666-02	.8430	5.662	553.4
151	191.25	.38000	654.00	.9960-01	.8010-01	.1205	.9142	.3587-02	.5398-02	.6820	4.581	553.5
151	191.25	.38500	655.00	.8090-01	.6500-01	.9800-01	.9142	.2911-02	.4390-02	.5510	3.699	554.3
151	191.25	.39000	656.00	.7400-01	.5940-01	.8960-01	.9142	.2661-02	.4013-02	.5030	3.380	554.4
151	191.25	.39500	657.00	.5890-01	.4730-01	.7140-01	.9142	.2117-02	.3197-02	.3990	2.681	554.9
151	191.25	.40000	658.00	.7440-01	.5970-01	.9040-01	.9142	.2672-02	.4047-02	.5010	3.373	556.0
151	191.25	.40500	659.00	.9810-01	.7850-01	.1195	.9142	.3516-02	.5349-02	.6540	4.401	557.5
151	191.25	.41000	660.00	.1189	.9480-01	.1453	.9142	.4244-02	.6505-02	.7780	5.212	560.2
151	191.25	.41500	661.00	.1437	.1145	.1758	.9142	.5126-02	.7874-02	.9370	6.252	560.8
151	191.25	.42000	662.00	.1857	.1462	.2301	.9142	.6549-02	.1030-01	1.146	7.641	568.6
151	191.25	.42500	663.00	.2287	.1790	.2854	.9142	.8016-02	.1278-01	1.371	9.155	572.5
151	191.25	.43000	664.00	.3387	.2601	.4321	.9142	.1165-01	.1935-01	1.865	12.50	583.4
151	191.25	.44000	665.00	.3160	.2436	.4013	.9142	.1091-01	.1797-01	1.770	11.80	581.3
151	191.25	.45000	666.00	.1791	.1402	.2233	.9142	.6280-02	.9997-02	1.077	7.211	572.1
151	191.25	.45500	667.00	.1514	.1186	.1887	.9142	.5313-02	.8450-02	.9120	6.111	571.8
151	191.25	.46000	668.00	.1540	.1205	.1923	.9142	.5394-02	.8612-02	.9200	6.181	572.9
151	191.25	.47000	669.00	.1393	.1098	.1725	.9142	.4916-02	.7726-02	.8620	5.819	568.2
151	191.25	.48000	670.00	.1211	.9600-01	.1489	.9142	.4297-02	.6668-02	.7710	5.214	564.2
151	191.25	.49000	671.00	.1138	.9030-01	.1398	.9142	.4043-02	.6260-02	.7280	4.909	563.5
151	191.25	.50000	672.00	.1275	.1005	.1578	.9142	.4502-02	.7064-02	.7920	5.446	567.7
151	191.25	.60000	673.00	.1133	.9140-01	.1368	.9142	.4092-02	.6124-02	.7860	5.030	551.4
151	191.25	.70000	674.00	.1104	.8810-01	.1348	.9142	.3943-02	.6035-02	.7250	4.903	559.6
151	191.25	.85000	676.00	.6870-01	.5540-01	.8290-01	.9142	.2480-02	.3712-02	.4760	3.004	551.4
151	191.25	.86000	677.00	.5380-01	.4330-01	.6500-01	.9142	.1941-02	.2911-02	.3710	2.368	552.2
151	191.25	.87000	678.00	.9240-01	.7410-01	.1121	.9142	.3318-02	.5020-02	.6240	4.007	555.5
151	191.25	.88000	679.00	.1140	.9090-01	.1391	.9142	.4073-02	.6231-02	.7500	4.860	559.5
151	191.25	.89000	680.00	.1201	.9540-01	.1474	.9142	.4271-02	.6602-02	.7710	5.065	563.0
151	191.25	.90000	681.00	.1187	.9350-01	.1471	.9142	.4188-02	.6585-02	.7330	4.891	568.4
151	191.25	.91000	682.00	.2950-01	.2310-01	.3680-01	.9142	.1034-02	.1646-02	.1770	1.276	572.2
151	191.25	.92600	683.00	.4100-01	.3110-01	.5330-01	.9142	.1392-02	.2385-02	.2130	1.526	590.4

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7# 5)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
151	191.25	.95000	684.00	.4390-01	.3580-01	.5250-01	.9142	.1602-02	.2349-02	.3210	2.323	543.1
151	197.00	.33000	685.00	.4370-01	.3560-01	.5240-01	.9141	.1592-02	.2348-02	.3160	2.126	545.0
151	197.00	.34000	686.00	.4640-01	.3760-01	.5560-01	.9141	.1686-02	.2490-02	.3330	2.243	545.7
151	197.00	.35000	687.00	.5220-01	.4230-01	.6270-01	.9141	.1896-02	.2805-02	.3740	2.512	546.4
151	197.00	.36000	688.00	.6210-01	.5020-01	.7490-01	.9141	.2248-02	.3355-02	.4360	2.923	549.8
151	197.00	.37000	689.00	.1032	.8290-01	.1252	.9141	.3713-02	.5604-02	.7030	4.707	554.2
151	197.00	.37500	690.00	.9940-0.	.7950-01	.1212	.9141	.3558-02	.5428-02	.6600	4.424	558.1
151	197.00	.50000	691.00	.1350	.1037	.1724	.9141	.4642-02	.7721-02	.7440	4.910	583.3
151	197.00	.60000	692.00	.8910-01	.7150-01	.1082	.9141	.3202-02	.4846-02	.6030	3.873	555.2
151	197.00	.70000	693.00	.1971	.1536	.2474	.9141	.6877-02	.1108-01	1.158	7.747	575.1
151	197.00	.80000	694.00	.7010-01	.5690-01	.8420-01	.9141	.2548-02	.3770-02	.5020	3.157	546.4
151	197.00	.87000	695.00	.8960-01	.7190-01	.1089	.9141	.3219-02	.4878-02	.6050	3.839	555.7
151	197.00	.92600	696.00	.4030-01	.3050-01	.5240-01	.9141	.1365-02	.2346-02	.2090	1.495	590.6
153	209.80	.15000-01	697.00	.1411	.1149	.1692	.9136	.5146-02	.7575-02	1.031	7.093	543.2
152	209.80	.30000-01	698.00	.5092	.4027	.4798	.9616	.1804-01	.2149-01	3.202	21.58	565.5
152	209.80	.50000-01	699.00	.4902	.3893	.4742	.9565	.1744-01	.2124-01	3.147	19.85	562.6
152	209.80	.70000-01	700.00	.4375	.3376	.4381	.9497	.1512-01	.1962-01	2.460	16.36	580.3
152	209.80	.10000+00	701.00	.3297	.2587	.3480	.9404	.1159-01	.1559-01	1.997	12.58	570.7
152	209.80	.15000	702.00	.1444	.1148	.1634	.9274	.5142-02	.7318-02	.9330	6.625	561.6
152	209.80	.20000	703.00	.7650-01	.6210-01	.9000-01	.9180	.2780-02	.4030-02	.5460	3.641	546.5
152	209.80	.30000	704.00	.3960-01	.3230-01	.4750-01	.9136	.1445-02	.2128-02	.2890	2.051	543.1
152	209.80	.35000	705.00	.5760-01	.4680-01	.6930-01	.9136	.2096-02	.3104-02	.4140	2.838	545.4
152	209.80	.37500	706.00	.9020-01	.7240-01	.1098	.9136	.3243-02	.4918-02	.6110	4.181	554.6
152	209.80	.50000	707.00	.1458	.1155	.1801	.9136	.5174-02	.8064-02	.9270	6.288	564.0
152	209.80	.60000	708.00	.6400-01	.5180-01	.7720-01	.9136	.2320-02	.3456-02	.4530	2.887	547.8
152	209.80	.70000	709.00	.8800-01	.7060-01	.1072	.9136	.3164-02	.4802-02	.5950	3.779	554.9
152	209.80	.80000	710.00	.3930-01	.3200-01	.4720-01	.9136	.1434-02	.2113-02	.2870	1.789	543.2
152	209.80	.87000	711.00	.6280-01	.5080-01	.7580-01	.9136	.2275-02	.3393-02	.4430	2.797	548.3
152	217.70	.15000-01	713.00	.1855	.1506	.2231	.9134	.6754-02	.9994-02	1.341	9.246	544.5
152	217.70	.30000-01	714.00	.4764	.3776	.4520	.9603	.1691-01	.2024-01	3.032	20.45	563.8
152	217.70	.50000-01	715.00	.4340	.3460	.4226	.9553	.1550-01	.1893-01	2.840	18.41	559.8
152	217.70	.70000-01	716.00	.5044	.3839	.5091	.9485	.1720-01	.2280-01	2.675	17.89	587.5
152	217.70	.10000+00	717.00	.3168	.2507	.3358	.9393	.1123-01	.1504-01	2.001	12.86	564.9
152	217.70	.15000	718.00	.1687	.1331	.1929	.9265	.5963-02	.8638-02	1.052	7.624	566.6
152	217.70	.20000	719.00	.8660-01	.7020-01	.1021	.9173	.3146-02	.4573-02	.6190	4.176	546.2
152	217.70	.30000	720.00	.5130-01	.4160-01	.6180-01	.9134	.1863-02	.2769-02	.3660	2.622	546.3
152	217.70	.35000	721.00	.5460-01	.4430-01	.6570-01	.9134	.1984-02	.2944-02	.3920	2.717	545.6
152	217.70	.37500	722.00	.7640-01	.6180-01	.9220-01	.9134	.2770-02	.4131-02	.5410	3.748	547.7
152	217.70	.50000	723.00	.1149	.9210-01	.1404	.9134	.4125-02	.6287-02	.7720	5.309	555.9
152	217.70	.60000	724.00	.7570-01	.6130-01	.9150-01	.9134	.2746-02	.4099-02	.5350	3.420	548.1
152	217.70	.70000	725.00	.6360-01	.5150-01	.7680-01	.9134	.2306-02	.3439-02	.4500	2.861	547.7
152	217.70	.80000	726.00	.3570-01	.2900-01	.4290-01	.9134	.1299-02	.1921-02	.2580	1.625	544.2
152	217.70	.87000	727.00	.6540-01	.5280-01	.7950-01	.9134	.2363-02	.3559-02	.4530	2.886	551.5

DATE 03 JUN 76

*SDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F25)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
152	217.70	.92600	728.00	.8250-01	.6550-01	.1019	.9134	.2934-02	.4565-02	.5290	3.814	562.8

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F28)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = -5.000 BETA = -6.000 GRIT = 4.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
168	4.520	5.030	-5.030	6.000	50.00	96.80	.3260	666.0	130.8	4.665	2533.	.2092-03
169	4.520	5.034	-5.030	6.000	50.00	96.90	.3260	666.0	130.9	4.669	2534.	.2093-03
170	4.520	5.039	-5.040	6.000	50.00	96.90	.3270	665.0	130.8	4.672	2533.	.2095-03
192	4.520	5.054	-5.030	6.000	50.00	96.90	.3270	664.0	130.6	4.672	2531.	.2099-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
168	.1053-06	.4731-01	..143-01
169	.1054-06	.4733-01	.1142-01
170	.1053-06	.4735-01	.1142-01
192	.1051-06	.4734-01	.1140-01

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
169	.00000	.30000-02	730.00	.4096	.2919	.3871	.9572	.1382-01	.1832-01	1.600	10.97	549.7
169	.00000	.10300-01	731.00	.8480-01	.6360-01	.1076	.9183	.3011-02	.5095-02	.4000	2.776	532.6
169	.00000	.15000-01	732.00	.5830-01	.4390-01	.7360-01	.9183	.2076-02	.3486-02	.2790	1.914	531.1
169	.00000	.25000-01	734.00	.1316	.9690-01	.1299	.9518	.4587-02	.6149-02	.5790	3.958	539.2
169	.00000	.30000-01	735.00	.3003	.2140	.2999	.9502	.1013-01	.1420-01	1.174	8.023	549.7
169	.00000	.40000-01	737.00	.3140	.2273	.3171	.9487	.1076-01	.1501-01	1.297	8.469	545.0
169	.00000	.45000-01	738.00	.3290	.2382	.3366	.9470	.1128-01	.1593-01	1.361	9.017	544.9
169	.00000	.60000-01	739.00	.3040	.2157	.3246	.9423	.1021-01	.1536-01	1.170	7.850	550.9
169	.00000	.70000-01	740.00	.2529	.1814	.2762	.9393	.8585-02	.1307-01	1.010	6.828	547.9
169	.00000	.80000-01	741.00	.2151	.1552	.2400	.9365	.7345-02	.1136-01	.8770	6.382	546.1
169	.00000	.10000+00	742.00	.1769	.1299	.2041	.9316	.6148-02	.9661-02	.7700	5.159	540.4
169	.00000	.12500	743.00	.1215	.8870-01	.1470	.9265	.4199-02	.6958-02	.5180	3.774	542.2
169	.00000	.15000	744.00	.9290-01	.6870-01	.1150	.9226	.3254-02	.5446-02	.4160	2.909	537.5
169	.00000	.17500	745.00	.4980-01	.3720-01	.6270-01	.9199	.1759-02	.2969-02	.2300	1.739	534.8
169	.00000	.20000	746.00	.2910-01	.2170-01	.3690-01	.9185	.1028-02	.1748-02	.1350	.9750	533.8
169	.00000	.21500	747.00	.2160-01	.1610-01	.2740-01	.9183	.7628-03	.1298-02	.1010	.7020	533.6

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F28)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
169	.00000	.23000	748.00	.1550-01	.1150-01	.1970-01	.9183	.5456-03	.9327-03	.7100-01	.5320	534.5
169	.00000	.24000	749.00	.1000-01	.7500-02	.1280-01	.9183	.3537-03	.6053-03	.4600-01	.3510	534.7
169	.00000	.30000	751.00	.1600-01	.1190-01	.2040-01	.9183	.5615-03	.9666-03	.7300-01	.4810	535.8
169	.00000	.35000	752.00	.2780-01	.2070-01	.3560-01	.9183	.9804-03	.1687-02	.1270	.8090	535.7
169	.00000	.40000	753.00	.4970-01	.3680-01	.6380-01	.9183	.1742-02	.3020-02	.2240	1.447	537.0
169	.00000	.50000	754.00	.2020-01	.1500-01	.2600-01	.9183	.7087-03	.1232-02	.9100-01	.5970	537.5
169	.00000	.60000	755.00	.3220-01	.2400-01	.4110-01	.9183	.1136-02	.1946-02	.1480	.9570	534.9
169	.00000	.90000	758.00	.1290-01	.9700-02	.1620-01	.9183	.4597-03	.7688-03	.6200-01	.4050	530.3
169	55.000	.22000	759.00	.5080-01	.3780-01	.6440-01	.9195	.1789-02	.3048-02	.2320	1.735	535.9
169	55.000	.25000	760.00	.2370-01	.1770-01	.3020-01	.9185	.8355-03	.1431-02	.1090	.8580	535.2
169	55.000	.27000	761.00	.3260-01	.2420-01	.4170-01	.9185	.1145-02	.1972-02	.1480	1.109	536.2
169	55.000	.30000	762.00	.5600-01	.4150-01	.7180-01	.9185	.1963-02	.3400-02	.2520	1.522	537.2
169	55.000	.32000	763.00	.5280-01	.3920-01	.6750-01	.9185	.1856-02	.3194-02	.2400	1.430	536.0
169	55.000	.34000	764.00	.6390-01	.4730-01	.8190-01	.9185	.2239-02	.3879-02	.2870	1.713	537.2
169	55.000	.36000	765.00	.1055	.7750-01	.1366	.9185	.3670-02	.6465-02	.4600	2.778	540.1
169	55.000	.38000	766.00	.6830-01	.5040-01	.8780-01	.9185	.2387-02	.4157-02	.3040	1.858	538.1
169	55.000	.40000	767.00	.3990-01	.2980-01	.5090-01	.9185	.1409-02	.2410-02	.1840	1.156	535.0
169	67.500	.23000	768.00	.6360-01	.4720-01	.8070-01	.9194	.2236-02	.3821-02	.2890	2.163	536.3
169	67.500	.25000	769.00	.2910-01	.2160-01	.3710-01	.9188	.1021-02	.1754-02	.1320	1.033	536.2
169	67.500	.27000	770.00	.4630-01	.3420-01	.5940-01	.9188	.1620-02	.2810-02	.2070	1.514	538.0
169	67.500	.29000	771.00	.4750-01	.3510-01	.6090-01	.9188	.1660-02	.2884-02	.2110	1.316	538.2
169	67.500	.30000	772.00	.7440-01	.5490-01	.9550-01	.9188	.2598-02	.4520-02	.3300	2.025	538.5
169	67.500	.31000	773.00	.8040-01	.5930-01	.1033	.9188	.2806-02	.4892-02	.3550	2.162	538.9
169	67.500	.32000	774.00	.1108	.8100-01	.1439	.9188	.3834-02	.6809-02	.4740	2.857	541.9
169	67.500	.32500	775.00	.1292	.9390-01	.1688	.9188	.4445-02	.7990-02	.5410	3.267	543.8
169	67.500	.33000	776.00	.1387	.1006	.1817	.9188	.4760-02	.8599-02	.5760	3.484	544.6
169	67.500	.33500	777.00	.1514	.1094	.1990	.9188	.5177-02	.9422-02	.6210	3.754	545.7
169	67.500	.34000	778.00	.1496	.1080	.1969	.9188	.5110-02	.9321-02	.6110	3.694	546.0
169	67.500	.34500	779.00	.1596	.1151	.2104	.9188	.5448-02	.9957-02	.6500	3.940	546.3
169	67.500	.35000	780.00	.1528	.1106	.2004	.9188	.5233-02	.9486-02	.6310	3.836	545.1
169	67.500	.35500	781.00	.1340	.9740-01	.1749	.9188	.4611-02	.8280-02	.5620	3.432	543.6
169	67.500	.36000	782.00	.1200	.8750-01	.1562	9188	.4141-02	.7391-02	.5090	3.107	542.7
169	67.500	.36500	783.00	.9540-01	.6990-01	.1234	.9188	.3309-02	.5839-02	.4120	2.514	540.9
169	67.500	.37000	784.00	.8570-01	.6310-01	.1105	.9188	.2985-02	.5230-02	.3760	2.304	539.7
169	67.500	.37500	785.00	.6710-01	.4960-01	.8610-01	.9188	.2346-02	.4076-02	.2980	1.847	538.3
169	67.500	.38000	786.00	.6130-01	.4540-01	.7840-01	.9188	.2150-02	.3711-02	.2760	1.714	537.2
169	67.500	.39000	787.00	.4690-01	.3490-01	.5970-01	.9188	.1651-02	.2824-02	.2150	1.337	535.6
169	67.500	.40000	788.00	.3180-01	.2370-01	.4040-01	.9188	.1121-02	.1910-02	.1460	.9210	534.9
169	67.500	.50000	789.00	.1210-01	.9000-02	.1530-01	.9188	.4277-03	.7225-03	.5700-01	.3660	533.2
169	67.500	.60000	790.00	.1430-01	.1060-01	.1820-01	.9188	.5024-03	.8609-03	.6500-01	.4300	535.8
192	67.500	.70000	791.00	.3560-01	.2640-01	.4560-01	.9183	.1250-02	.2160-02	.1610	1.143	535.7
192	67.500	.80000	792.00	.5130-01	.3840-01	.6520-01	.9183	.1821-02	.3089-02	.2410	1.525	532.3
192	67.500	.90000	793.00	.5600-01	.4130-01	.7210-01	.9183	.1959-02	.3416-02	.2490	1.615	537.3

BEST AVAILABLE COPY
FOR QUALITY

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F26)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
192	78.000	.27000	794.00	.3120-01	.2320-01	.3990-01	.9185	.1098-02	.1891-02	.1420	1.017	535.4
192	78.000	.29000	795.00	.6860-01	.5090-01	.8810-01	.9185	.2409-02	.4173-02	.3090	1.914	536.3
170	78.000	.30000	796.00	.1639	.1177	.2158	.9193	.5573-02	.1022-01	.6580	3.991	547.2
170	78.000	.31000	797.00	.2160	.1531	.2890	.9193	.7247-02	.1368-01	.8270	5.004	551.1
170	78.000	.32000	798.00	.2298	.1624	.3084	.9193	.7690-02	.1460-01	.8720	5.246	551.9
170	78.000	.32500	799.00	.2234	.1578	.3001	.9193	.7471-02	.1421-01	.8460	5.102	552.0
170	78.000	.33000	800.00	.2265	.1603	.3036	.9193	.7588-02	.1438-01	.8630	5.206	551.6
170	78.000	.33500	801.00	.2346	.1647	.3172	.9193	.7799-02	.1502-01	.8710	5.250	553.6
170	78.000	.34000	802.00	.2337	.1642	.3159	.9193	.7774-02	.1496-01	.8690	5.238	553.5
170	78.000	.34500	803.00	.2304	.1631	.3086	.9193	.7724-02	.1461-01	.8800	5.324	551.3
170	78.000	.35000	804.00	.2170	.1547	.2886	.9193	.7323-02	.1366-01	.8480	5.131	549.6
170	78.000	.35500	805.00	.1981	.1420	.2616	.9193	.6723-02	.1239-01	.7900	4.784	547.9
170	78.000	.36000	806.00	.1527	.1104	.1998	.9193	.5225-02	.9458-02	.6270	3.814	545.3
170	78.000	.36500	807.00	.1392	.1010	.1813	.9193	.4781-02	.8584-02	.5790	3.537	544.1
170	78.000	.37000	808.00	.1026	.7520-01	.1321	.9193	.3562-02	.6256-02	.4440	2.725	540.6
170	78.000	.37500	809.00	.7410-01	.5480-01	.9470-01	.9193	.2593-02	.4485-02	.3300	2.027	538.0
170	78.000	.38000	810.00	.5290-01	.3930-01	.6710-01	.9193	.1859-02	.3179-02	.2400	1.486	535.9
170	78.000	.39000	811.00	.4990-01	.3740-01	.6290-01	.9193	.1771-02	.2979-02	.2340	1.455	532.9
170	78.000	.40000	812.00	.3960-01	.2970-01	.4980-01	.9193	.1409-02	.2358-02	.1880	1.166	531.9
192	90.000	.40000-01	985.00	.4012	.2807	.3539	.9672	.1367-01	.1675-01	1.619	10.54	545.7
192	90.000	.50000-01	986.00	.4657	.3338	.4207	.9635	.1580-01	.1992-01	1.853	11.98	546.9
192	90.000	.60000-01	987.00	.4853	.3315	.4441	.9600	.1569-01	.2102-01	1.644	10.75	559.4
192	90.000	.70000-01	988.00	.4522	.3122	.4270	.9566	.1478-01	.2021-01	1.585	10.60	556.9
192	90.000	.80000-01	989.00	.3948	.2742	.3837	.9533	.1298-01	.1816-01	1.411	9.957	555.4
192	90.000	.10000+00	990.00	.3125	.2228	.3200	.9471	.1055-01	.1515-01	1.221	7.960	548.3
192	90.000	.15000	991.00	.1829	.1312	.2095	.9339	.6208-02	.9919-02	.7290	5.353	546.7
170	90.000	.20000	813.00	.6650-01	.4910-01	.8380-01	.9206	.2326-02	.3968-02	.2970	2.168	537.7
170	90.000	.24000	814.00	.5220-01	.3850-01	.6650-01	.9198	.1821-02	.3149-02	.2300	1.872	538.7
170	90.000	.27000	816.00	.6090-01	.4480-01	.7790-01	.9198	.2121-02	.3690-02	.2660	1.899	539.8
170	90.000	.29000	817.00	.1972	.1377	.2671	.9198	.6519-02	.1265-01	.7180	4.445	555.1
170	90.000	.30000	818.00	.3354	.2220	.4851	.9198	.1051-01	.2297-01	1.035	6.262	566.9
170	90.000	.31000	819.00	.3465	.2336	.4896	.9198	.1106-01	.2318-01	1.129	6 790	563.2
170	90.000	.32000	820.00	.3489	.2360	.4908	.9198	.1117-01	.2324-01	1.149	6.891	562.5
170	90.000	.32500	821.00	.3458	.2335	.4875	.9198	.1106-01	.2308-01	1.133	6.777	562.8
170	90.000	.33000	822.00	.3349	.2237	.4791	.9198	.1059-01	.2268-01	1.060	6.350	565.2
170	90.000	.33500	823.00	.3680	.2382	.5491	.9198	.1128-01	.2600-01	1.063	6.366	571.0
170	90.000	.34000	824.00	.4655	.2988	.7024	.9198	.1415-01	.3325-01	1.314	7.824	572.4
170	90.000	.34500	825.00	.5138	.3228	.8000	.9198	.1529-01	.3788-01	1.368	8.151	575.8
170	90.000	.35000	826.00	.5445	.3119	.9916	.9198	.1477-01	.4695-01	1.150	6.814	587.4
170	90.000	.36000	828.00	.3049	.2028	.4381	.9198	.9603-02	.2074-01	.9550	5.700	565.9
170	90.000	.36500	829.00	.1703	.1226	.2227	.9198	.5804-02	.1054-01	.6900	4.169	546.5
170	90.000	.37000	830.00	.1218	.8960-01	.1557	.9198	.4240-02	.7373-02	.5330	3.240	539.7
170	90.000	.37500	831.00	.8950-01	.6650-01	.1133	.9198	.3149-02	.5362-02	.4070	2.496	536.0

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F2B)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
170	90.000	.38000	832.00	.6320-01	.4710-01	.7960-01	.9198	.2231-02	.3767-02	.2920	1.792	534.4
170	90.000	.39000	833.00	.7170-01	.5300-01	.9110-01	.9198	.2511-02	.4312-02	.3210	1.987	537.5
170	90.000	.40000	834.00	.8380-01	.6180-01	.1066	.9198	.2926-02	.5049-02	.3720	2.306	538.3
170	90.000	.50000	835.00	.3750-01	.2790-01	.4740-01	.9198	.1321-02	.2242-02	.1720	1.090	535.4
170	90.000	.60000	836.00	.4520-01	.3380-01	.5670-01	.9198	.1600-02	.2684-02	.2120	1.419	533.1
170	90.000	.70000	837.00	.6320-01	.4670-01	.8050-01	.9198	.2209-02	.3812-02	.2810	1.983	538.3
170	90.000	.80000	838.00	.1080	.8010-01	.1368	.9198	.3792-02	.6477-02	.4880	3.051	536.5
170	90.000	.90000	839.00	.5150-01	.3760-01	.6630-01	.9198	.1781-02	.3139-02	.2200	1.408	541.9
170	112.50	.23000	840.00	.7560-01	.5550-01	.9520-01	.9215	.2628-02	.4505-02	.3290	2.661	540.1
170	112.50	.25000	841.00	.4350-01	.3190-01	.5530-01	.9205	.1511-02	.2618-02	.1890	1.471	540.2
170	112.50	.30000	843.00	.1237	.9000-01	.1588	.9205	.4263-02	.7520-02	.5210	3.102	543.2
170	112.50	.33000	844.00	.2382	.1671	.3178	.9205	.7913-02	.1505-01	.8830	5.303	553.8
170	112.50	.35000	845.00	.3002	.2065	.4098	.9205	.9778-02	.1940-01	1.043	6.352	558.7
170	112.50	.37000	846.00	.2151	.1532	.2823	.9205	.7253-02	.1337-01	.8390	5.160	549.7
170	112.50	.40000	847.00	.1029	.7590-01	.1302	.9205	.3596-02	.6164-02	.4560	2.856	538.4
170	112.50	.45000	848.00	.8190-01	.6080-01	.1031	.9205	.2880-02	.4880-02	.3720	2.347	535.3
170	112.50	.50000	849.00	.6980-01	.5150-01	.8820-01	.9205	.2437-02	.4178-02	.3090	1.998	538.3
170	112.50	.55000	850.00	.5860-01	.4330-01	.7400-01	.9205	.2052-02	.3505-02	.2620	1.758	537.7
170	112.50	.60000	851.00	.7780-01	.5760-01	.9800-01	.9205	.2728-02	.4641-02	.3500	2.358	537.0
170	112.50	.65000	852.00	.1126	.8260-01	.1434	.9205	.3911-02	.6787-02	.4880	3.330	540.5
170	112.50	.70000	853.00	.1293	.9270-01	.1685	.9205	.4391-02	.7979-02	.5160	3.623	547.7
170	112.50	.75000	854.00	.8680-01	.6350-01	.1108	.9205	.3009-02	.5247-02	.3730	2.426	541.3
170	112.50	.90000	856.00	.2042	.1460	.2669	.9205	.6913-02	.1264-01	.8070	5.231	548.6
170	125.40	.84000	857.00	.1170	.8590-01	.1485	.9207	.4065-02	.7031-02	.5080	3.152	540.3
170	125.40	.85000	858.00	.1153	.8460-01	.1466	.9207	.4003-02	.6939-02	.4990	3.112	540.6
170	125.40	.86000	859.00	.8580-01	.6330-01	.1085	.9207	.2996-02	.5138-02	.3790	2.387	538.7
170	125.40	.87000	860.00	.8400-01	.6170-01	.1066	.9207	.2919-02	.5047-02	.3650	2.303	540.2
170	125.40	.88000	861.00	.9470-01	.6910-01	.1211	.9207	.3270-02	.5735-02	.4020	2.529	542.5
170	125.40	.89000	862.00	.1305	.9390-01	.1591	.9207	.4444-02	.8007-02	.5270	3.331	546.7
170	125.40	.90000	863.00	.1373	.9820-01	.1790	.9207	.4651-02	.8474-02	.5440	3.455	548.3
170	125.40	.91000	864.00	.1686	.1182	.2247	.9207	.5598-02	.1064-01	.6540	4.517	553.9
170	125.40	.92600	865.00	.2525	.1697	.3536	.9207	.8032-02	.1674-01	.8150	5.853	563.9
170	129.30	.80000	866.00	.8820-01	.6530-01	.1110	.9207	.3091-02	.5256-02	.3960	2.500	537.2
170	129.30	.81000	867.00	.8620-01	.6390-01	.1084	.9207	.3025-02	.5134-02	.3880	2.439	536.9
170	129.30	.82000	868.00	.8620-01	.6390-01	.1083	.9207	.3027-02	.5125-02	.3900	2.451	536.4
170	129.30	.83000	869.00	.9510-01	.6990-01	.1205	.9207	.3311-02	.5704-02	.4160	2.619	539.6
170	135.00	.40000-01	870.00	.4450	.3168	.3814	.9706	.1500-01	.1806-01	1.732	11.12	549.8
170	135.00	.50000-01	871.00	.5439	.3868	.4781	.9669	.1831-01	.2264-01	2.109	13.46	550.1
170	135.00	.60000-01	872.00	.5198	.3512	.4606	.9634	.1663-01	.2181-01	1.705	11.23	562.8
170	135.00	.70000-01	873.00	.4768	.3253	.4365	.9599	.1540-01	.2067-01	1.613	10.90	560.6
170	135.00	.10000+00	875.00	.3405	.2425	.3401	.9501	.1148-01	.1610-01	1.327	8.695	549.7
170	135.00	.15000	876.00	.2257	.1600	.2542	.9363	.7575-02	.1203-01	.8660	6.323	551.0
170	135.00	.20000	877.00	.1232	.9010-01	.1496	.9260	.4265-02	.7081-02	.5280	3.568	541.6

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OF POOR QUALITY

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F28)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
170	135.00	.35000	878.00	.1071	.7880-01	.1357	.9207	.3729-02	.6426-02	.4690	2.924	539.8
170	135.00	.40000	879.00	.1286	.9330-01	.1652	.9207	.4420-02	.7819-02	.5360	3.404	544.0
170	135.00	.50000	880.00	.1195	.8570-01	.1554	.9207	.4058-02	.7358-02	.4770	3.277	547.7
170	135.00	.55000	881.00	.1139	.8220-01	.1470	.9207	.3893-02	.6961-02	.4660	3.107	545.6
170	135.00	.60000	882.00	.1489	.1079	.1914	.9207	.5111-02	.9062-02	.6180	4.162	544.3
170	135.00	.65000	883.00	.1054	.7730-01	.1341	.9207	.3658-02	.6350-02	.4550	3.115	540.9
170	135.00	.70000	884.00	.8410-01	.6190-01	.1065	.9207	.2933-02	.5041-02	.3700	2.640	539.1
170	135.00	.75000	885.00	.7260-01	.5360-01	.9160-01	.9207	.2538-02	.4339-02	.3230	2.042	538.2
170	135.00	.80000	886.00	.1026	.7600-01	.1292	.9207	3599-02	.6115-02	.4610	2.914	537.1
192	135.00	.84000	887.00	.8670-01	.6440-01	.1100	.9196	.3050-02	.5211-02	.3930	2.484	535.7
192	135.00	.85000	888.00	.1281	.9330-01	.1640	.9207	.4419-02	.7762-02	.5400	3.434	541.8
192	135.00	.86000	889.00	.8700-01	.6410-01	.1101	.9207	.3033-02	.5212-02	.3820	2.425	538.1
192	135.00	.87000	890.00	.1083	.7950-01	.1376	.9207	.3761-02	.6513-02	.4690	2.992	539.4
192	135.00	.89000	892.00	.1433	.1040	.1840	.9207	.4923-02	.8709-02	.5960	3.887	543.0
192	135.00	.90000	893.00	.1964	.1418	.2535	.9207	.6714-02	.1200-01	.8030	5.290	544.5
192	135.00	.91000	894.00	.1713	.1231	.2222	.9207	.5827-02	.1052-01	.6880	5.021	546.0
192	135.00	.92600	895.00	.2010	.1416	.2666	.9207	.6702-02	.1262-01	.7530	5.459	551.8
192	135.00	.95000	896.00	.9270-01	.6860-01	.1167	.9207	.3249-02	.5525-02	.4150	3.016	536.3
192	142.30	.42000	897.00	.1497	.1077	.1941	.9206	.5099-02	.9188-02	.6040	3.887	545.6
192	142.30	.43500	898.00	.2919	.2013	.3970	.9206	:.527-02	.1879-01	:.019	6.334	557.2
192	142.30	.45000	899.00	.2198	.1540	.2936	.9206	.7269-02	.1390-01	.8080	5.270	553.2
192	142.30	.50000	900.00	.1788	.1270	.2353	.9206	.6013-02	.1114-01	.6890	4.585	549.5
192	142.30	.60000	901.00	.1538	.1123	.1964	.9206	.5316 02	.9299-02	.6550	4.360	541.0
192	142.30	.70000	902.00	.1052	.7760-01	.1331	.9206	.3672-02	.6300-02	.4640	3.183	537.7
192	142.30	.80000	903.00	.1062	.7900-01	.1331	.9206	.3738-02	.6301-02	.4850	3.100	534.4
192	142.30	.87000	904.00	.1155	.8430-01	.1478	.9206	.3988-02	.6997-02	.4890	3.100	541.5
192	154.98	.42000	905.00	.2234	.1562	.2995	.9204	7396-02	.1418-01	.8170	5.249	553.7
192	154.98	.43500	906.00	.3119	.2120	.4325	.9204	.1003-01	.2047-01	1.040	6.700	560.5
192	154.98	.45000	907.00	.2140	.1526	.2809	.9204	.7223-02	.1330-01	.8360	5.447	548.4
192	154.98	.50000	908.00	.2070	.1452	.2768	.9204	.6871-02	.1310-01	.7630	5.444	553.0
192	154.98	.93500	913.00	.3989	.2579	.5898	.9204	.1221-01	.2792-01	1.146	8.235	570.2
192	154.98	.94500	914.00	.2093	.1423	.2901	.9204	.6736-02	.1373-01	.6990	4.996	560.4
192	154.98	.80000-01	919.00	.4137	.2880	.3965	.9550	.1363-01	.1877-01	1.490	10.12	554.8
192	157.50	.20000	922.00	.1237	.9050-01	.1512	.9252	.4286-02	.7157-02	.5310	3.547	540.3
192	157.50	.42000	923.00	.1924	.1378	.2518	.9202	.6522-02	.1192-01	.7630	4.978	547.1
192	157.50	.43500	924.00	.2435	.1718	.3240	.9202	.8134-02	.1534-01	.9180	5.992	551.3
192	157.50	.45000	925.00	.2347	.1642	.3153	.9202	.7773-02	.1493-01	.8590	5.654	553.6
192	157.50	.85000	926.00	.4690-01	.3480-01	.5900-01	.9202	.1648-02	.2794-02	.2130	1.385	534.9
192	157.50	.86000	927.00	.7340-01	.5450-01	.9260-01	.9202	.2582-02	.4381-02	.3330	2.173	535.1
192	157.50	.87000	928.00	.5590-01	.4130-01	.7090-01	.9202	.1954-02	.3357-02	.2480	1.619	537.3
192	157.50	.88000	929.00	.1050	.7660-01	.1347	.9202	.3626-02	.6375-02	.4450	2.923	541.3
192	157.50	.89000	930.00	.1087	.7970-01	.1406	.9202	.3725-02	.6657-02	.4480	2.955	543.8
192	157.50	.90000	931.00	.1000+00	.7190-01	.1304	.9202	.3404-02	.6173-02	.4020	2.711	546.0

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F28)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
192	157.50	.91000	932.00	.6550-01	.4670-01	.8610-01	.9202	.2211-02	.4075-02	.2560	1.874	548.2
192	157.50	.92600	933.00	.1023	.6930-01	.1429	.9202	.3279-02	.6762-02	.3370	2.442	561.3
192	163.12	.41500	934.00	.1672	.1206	.2177	.9200	.5707-02	.1030-01	.6790	4.410	545.1
192	163.12	.42000	935.00	.1989	.1425	.2608	.9200	.6746-02	.1234-01	.7900	5.169	547.0
192	163.12	.43000	937.00	.2907	.2003	.3986	.9200	.9480-02	.1887-01	1.012	6.605	557.4
192	163.12	.44000	938.00	.3281	.2201	.4649	.9200	.1042-01	.2201-01	1.051	6.820	563.2
192	163.12	.44500	939.00	.3007	.2023	.4245	.9200	.9578-02	.2010-01	.9720	6.404	562.5
192	163.12	.45000	940.00	.2770	.1897	.3824	.9200	.8981-02	.1810-01	.9470	6.251	558.7
192	163.12	.50000	941.00	.1489	.1062	.1963	.9200	.5026-02	.9290-02	.5820	3.942	548.4
192	163.12	.60000	942.00	.1282	.9350-01	.1649	.9200	.4428-02	.7805-02	.5440	3.514	541.4
192	163.12	.70000	943.00	.5030-01	.3750-01	.6330-01	.9200	.1776-02	.2997-02	.2320	1.602	533.7
192	163.12	.80000	944.00	.3910-01	.2940-01	.4870-01	9200	.1390-02	.2305-02	.1860	1.224	530.3
192	168.00	.35000	945.00	.7290-01	.5410-01	.9230-01	.9198	.2560-02	.4371-02	.3290	2.097	535.6
192	168.00	.36000	946.00	.6890-01	.5110-01	.8730-01	.9198	.2420-02	.4130-02	.3110	1.988	535.6
192	168.00	.37000	947.00	.7580-01	.5620-01	.9600-01	.9198	.2661-02	.4543-02	.3420	2.192	535.6
192	168.00	.37500	948.00	.9180-01	.6780-01	.1168	.9198	.3211-02	.5527-02	.4080	2.613	537.1
192	168.00	.38500	950.00	.1104	.8100-01	.1413	.9198	.3834-02	.6690-02	.4780	3.095	539.4
192	168.00	.39000	951.00	.1265	.9230-01	.1628	.9198	.4371-02	.7709-02	.5370	3.496	541.2
192	168.00	.39500	952.00	.1242	.9090-01	.1596	.9198	.4302-02	.7554-02	.5320	3.411	540.5
192	168.00	.40000	953.00	.1185	.8650-01	.1524	.9198	.4096-02	.7216-02	.5040	3.291	541.0
192	168.00	.40500	954.00	.1257	.9170-01	.1621	.9198	.4339-02	.7674-02	.5320	3.477	541.6
192	168.00	.41000	955.00	.1474	.1068	.1912	.9198	.5055-02	.9052-02	.6090	3.983	543.5
192	168.00	.41500	956.00	.1701	.1223	.2226	.9198	.5788-02	.1054-01	.6840	4.476	546.0
192	168.00	.42000	957.00	.2156	.1534	.2855	.9198	.7260-02	.1351-01	.8350	5.474	549.1
192	168.00	.42500	958.00	.2403	.1698	.3207	.9198	.8039-02	.1518-01	.9100	5.958	550.9
192	168.00	.43000	959.00	.3597	.2385	.5186	.9198	.1129-01	.2455-01	1.113	7.215	555.5
192	168.00	.44000	960.00	.3727	.2502	.5290	.9198	.1184-01	.2504-01	1.196	7.786	553.1
192	168.00	.44500	961.00	.3545	.2378	.5035	.9198	.1126-01	.2383-01	1.136	7.394	553.2
192	168.00	.45000	962.00	.3096	.2110	.4311	.9198	.9988-02	.2041-01	1.041	6.830	559.8
192	168.00	.45500	963.00	.2786	.1914	.3842	.9198	.9059-02	.1819-01	.9610	6.309	558.0
192	168.00	.46000	964.00	.2806	.1922	.3883	.9198	.9098-02	.1836-01	.9590	6.332	558.7
192	168.00	.47000	965.00	.2341	.1630	.3178	.9198	.7717-02	.1504-01	.8440	5.596	554.8
192	168.00	.48000	966.00	.1996	.1405	.2646	.9198	.6652-02	.1253-01	.7250	5.066	550.6
192	168.00	.49000	967.00	.1464	.1060	.1903	.9198	.5016-02	.9007-02	.6030	4.057	544.0
192	168.00	.85000	968.00	.2740-01	.2040-01	.3460-01	.9198	.9635-03	.1639-02	.1240	.8120	534.9
192	168.00	.86000	969.00	.3040-01	.2250-01	.3860-01	.9198	.1065-02	.1829-02	.1360	.8880	536.6
192	168.00	.87000	970.00	.6390-01	.4680-01	.8200-01	.9198	.2215-02	.3881-02	.2750	1.799	540.1
192	168.00	.88000	971.00	.7660-01	.5580-01	.9880-01	.9198	.2641-02	.4679-02	.3230	2.118	541.8
192	168.00	.89000	972.00	.8340-01	.6020-01	.1086	.9198	.2850-02	.5143-02	.3400	2.263	544.7
192	168.00	.90000	973.00	.6930-01	.4960-01	.9100-01	.9198	.2350-02	.4308-02	.2750	1.873	547.0
192	168.00	.91000	974.00	.5270-01	.3730-01	.7030-01	.9198	.1764-02	.3330-02	.2000	1.453	550.9
192	168.00	.92600	975.00	.4060-01	.2660-01	.5950-01	.9198	.1259-02	.2818-02	.1210	.8680	567.9
192	168.00	.95000	976.00	.9020-01	.6680-01	.1143	.9198	.3164-02	.5413-02	.4050	2.935	536.0

(IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F26)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
192	180.00	.20000-01	982.00	.3186	.2346	.2775	.9707	.1110-01	.1313-01	1.398	9.765	558.2
192	180.00	.25000-01	983.00	.7870	.5340	.6689	.9686	.2528-01	.3166-01	2.611	17.92	560.8
192	180.00	.30000-01	984.00	.7943	.5439	.6871	.9669	.2575-01	.3253-01	2.713	18.62	558.7
168	180.00	.40000-01	600.00	.4602	.3279	.4094	.9654	.1551-01	.1937-01	1.796	11.53	549.8
168	180.00	.50000-01	601.00	.4786	.3425	.4376	.9618	.1621-01	.2071-01	1.896	12.22	549.5
168	180.00	.60000-01	602.00	.4756	.3257	.4420	.9583	.1541-01	.2091-01	1.627	10.76	559.9
168	180.00	.70000-01	603.00	.4290	.2954	.4109	.9549	.1398-01	.1944-01	1.493	10.13	558.7
168	180.00	.80000-01	604.00	.4058	.2833	.4002	.9516	.1340-01	.1893-01	1.477	9.566	555.3
168	180.00	.10000+00	605.00	.2801	.1994	.2907	.9455	.9433-02	.1376-01	1.089	7.602	560.1
169	180.00	.15000	606.00	.1665	.1193	.1930	.9326	.5545-02	.9133-02	.6530	4.817	549.1
169	180.00	.20000	607.00	.9950-01	.7290-01	.1232	.9235	.3449-02	.5831-02	.4230	2.810	541.0
168	180.00	.21000	608.00	.8130-01	.5980-01	.1016	.9222	.2828-02	.4808-02	.3550	2.465	539.8
168	180.00	.22000	609.00	.6890-01	.5070-01	.8700-01	.9211	.2399-02	.4118-02	.3020	2.254	539.7
168	180.00	.30000	610.00	.6450-01	.4740-01	.8260-01	.9193	.2241-02	.3916-02	.2810	1.931	540.0
168	180.00	.35000	611.00	.5466-01	.4030-01	.6980-01	.9193	.1907-02	.3302-02	.2420	1.622	538.4
168	180.00	.36000	612.00	.5920-01	.4370-01	.7560-01	.9193	.2067-02	.3577-02	.2630	1.773	538.4
168	180.00	.37000	613.00	.8490-01	.6250-01	.1088	.9193	.2956-02	.5146-02	.3730	2.514	538.4
168	180.00	.37500	614.00	.9760-01	.7110-01	.1264	.9193	.3356-02	.5982-02	.4130	2.783	542.7
168	180.00	.38000	615.00	.1082	.7860-01	.1407	.9193	.3717-02	.6557-02	.4520	3.040	544.0
169	180.00	.38500	616.00	.1086	.7870-01	.1424	.9193	.3770-02	.6735-02	.4590	3.093	543.6
168	180.00	.39000	617.00	.9830-01	.7190-01	.1270	.9193	.3400-02	.6010-02	.4200	2.823	541.9
168	180.00	.39500	618.00	.9810-01	.7170-01	.1267	.9193	.3393-02	.5995-02	.4190	2.835	541.9
168	180.00	.40000	619.00	.1088	.7930-01	.1411	.9193	.3754-02	.6678-02	.4600	3.080	542.9
168	180.00	.40500	620.00	.1217	.8800-01	.1591	.9193	.4164-02	.7530-02	.5090	3.354	545.4
168	180.00	.41000	621.00	.1704	.1217	.2258	.9193	.5756-02	.1069-01	.6780	4.496	549.1
168	180.00	.41500	622.00	.2199	.1546	.2957	.9193	.7314-02	.1404-01	.8200	5.473	553.5
168	180.00	.42500	624.00	.2979	.2032	.4172	.9193	.9613-02	.1974-01	1.026	6.882	560.9
169	180.00	.43000	625.00	.3307	.2220	.4726	.9193	.1050-01	.2235-01	1.093	7.391	564.3
168	180.00	.44000	626.00	.3695	.2390	.5553	.9193	.1131-01	.2627-01	1.188	7.874	571.3
169	180.00	.44500	627.00	.3151	.2074	.4622	.9193	.9814-02	.2167-01	.9860	6.412	568.1
168	180.00	.45000	628.00	.2482	.1669	.3485	.9193	.7892-02	.1849-01	.8220	5.605	561.4
168	180.00	.45500	629.00	.1807	.1398	.2709	.9193	.8014-02	.1292-01	.7030	5.032	554.6
168	180.00	.46000	630.00	.1819	.1396	.2916	.9193	.6.53-02	.1143-01	.7100	4.765	549.7
168	180.00	.47000	631.00	.1385	.9950-01	.1824	.9193	.7708-02	.8032-02	.6560	3.738	547.4
168	180.00	.48000	632.00	.1188	.8530-01	.1566	.9193	.4139-02	.7439-02	.5780	3.219	547.6
168	180.00	.49000	633.00	.9930-01	.6500-01	.1193	.9193	.3874-02	.6664-02	.4690	2.817	545.6
168	180.00	.50000	634.00	.1004	.7200-01	.1748	.9193	.4.13-02	.6291-02	.4410	3.180	547.6
168	180.00	.55000	635.00	.1185	.8610-01	.1562	.9193	.3.78-02	.7091-02	.4760	3.041	544.6
168	180.00	.60000	636.00	.1003	.7690-01	.1384	.9193	.3.13-02	.6048-02	.4400	2.841	544.6
168	180.00	.65000	637.00	.9.70-01	.6800-01	.9640-01	.9193	.2.60-02	.4877-02	.3410	2.115	539.7
168	180.00	.70000	638.00	.8170-01	.4160-01	.7220-01	.9193	.2.60-02	.3414 02	.2490	1.711	535.3
168	180.00	.75000	639.00	.2750-01	.1690-01	.3230-01	.9193	.9936-03	.1027 02	.1110	.781	535.5
168	180.00	.80000	640.00	.1.01-01	.8.0-01	.1700-01	.9193	.4.74-03	.3283-02	.1120	1.106	535.4

(RV7F26)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
168	180.00	.85000	641.00	.3140-01	.2310-01	.4030-01	.9193	.1095-02	.1905-02	.1380	.8770	539.2
168	180.00	.86000	642.00	.4210-01	.3080-01	.5430-01	.9193	.1459-02	.2568-02	.1810	1.167	541.2
168	180.00	.87000	643.00	.9090-01	.6610-01	..180	.9193	.3126-02	.5585-02	.3810	2.462	543.6
168	180.00	.88000	644.00	.1056	.7630-01	.1382	.9193	.3609-02	.6537-02	.4320	2.814	545.7
168	180.00	.89000	645.00	.1005	.7200-01	.1328	.9193	.3408-02	.6282-02	.4000	2.629	548.2
168	180.00	.90000	646.00	.1130	.8060-01	.1499	.9193	.3813-02	.7095-02	.4430	2.970	549.5
168	180.00	.92600	648.00	.5190-01	.3320-01	.7920-01	.9193	.1571-02	.3.46-02	.1450	1.045	573.1
168	180.00	.95000	649.00	.4280-01	.3180-01	.5440-01	.9193	.1505-02	.2572-02	.1950	1.414	536.1
168	191.25	.35000	650.00	.5480-01	.4040-01	.7020-01	.9189	.1914-02	.3321-02	.2440	1.645	538.2
168	191.25	.36000	651.00	.8950-01	.6570-01	.1154	.9189	.3111-02	.5460-02	.3900	2.639	540.1
168	191.25	.37000	652.00	.1141	.8280-01	.1490	.9189	.3920-02	.7048-02	.4770	3.208	543.9
168	191.25	.37500	653.00	.1077	.7850-01	.1401	.9189	.3714-02	.6630-02	.4560	3.079	542.8
168	191.25	.38000	654.00	.8940-01	.6540-01	.1158	.9189	.3094-02	.5481-02	.3830	2.592	541.6
168	191.25	.38500	655.00	.8510-01	.6220-01	.1103	.9189	.2945-02	.5217-02	.3650	2.466	541.6
168	191.25	.39000	656.00	.8650-01	.6330-01	.1123	.9189	.2993-02	.5311-02	.3700	2.500	541.9
168	191.25	.39500	657.00	.1170	.8520-01	.1524	.9189	.4032-02	.7210-02	.4940	3.335	543.1
168	191.25	.40000	658.00	.1189	.8620-01	.1557	.9189	.4076-02	.7367-02	.4920	3.334	544.7
168	191.25	.40500	659.00	.1177	.8490-01	.1550	.9189	.4019-02	.7333-02	.4800	3.246	546.1
168	191.25	.41000	660.00	.1359	.9790-01	.1793	.9189	.4631-02	.8483-02	.5500	3.711	546.7
168	191.25	.41500	661.00	.1570	.1127	.2076	.9189	.5334-02	.9822-02	.6300	4.232	547.4
168	191.25	.42000	662.00	.2063	.1450	.2797	.9189	.6862-02	.1323-01	.7690	5.168	553.4
168	191.25	.42500	663.00	.2501	.1732	.3457	.9189	.8193-02	.1636-01	.8860	5.959	557.4
168	191.25	.43000	664.00	.3193	.2122	.4653	.9189	.1004-01	.2201-01	.9960	6.732	566.3
168	191.25	.44000	665.00	.3112	.2096	.4455	.9189	.9915-02	.2108-01	1.010	6.794	563.6
168	191.25	.45000	666.00	.2251	.1580	.3057	.9189	.7477-02	.1446-01	.8350	5.645	553.8
168	191.25	.45500	667.00	.1959	.1380	.2653	.9189	.6527-02	.1255-01	.7340	4.962	553.1
168	191.25	.46000	668.00	.1657	.1173	.2230	.9189	.5548-02	.1055-01	.6310	4.285	551.7
168	191.25	.47000	669.00	.1215	.8720-01	.1607	.9189	.4128-02	.7606-02	.4870	3.323	547.5
168	191.25	.48000	670.00	.1223	.8810-01	.1611	.9189	.4169-02	.7623-02	.4960	3.389	546.4
168	191.25	.49000	671.00	.1562	.1111	.2091	.9189	.5256-02	.9891-02	.6050	4.110	550.3
168	191.25	.50000	672.00	.1985	.1385	.2717	.9189	.6553-02	.1286-01	.7210	4.992	555.4
168	191.25	.60000	673.00	.1336	.9740-01	.1736	.9189	.4610-02	.8215-02	.5670	3.642	542.5
168	191.25	.70000	674.00	.1226	.8840-01	.1613	.9189	.4183-02	.7633-02	.4990	3.399	546.1
168	191.25	.85000	676.00	.6980-01	.5130-01	.8380-01	.9189	.2429-02	.4247-02	.3060	1.943	539.4
168	191.25	.86000	677.00	.7160-01	.5230-01	.9290-01	.9189	.2476-02	.4394-02	.3060	1.963	541.8
168	191.25	.87000	678.00	.8420-01	.6120-01	.1101	.9189	.2894-02	.5203-02	.3520	2.270	544.0
168	191.25	.88000	679.00	.8320-01	.6000-01	.1097	.9189	.2837-02	.5189-02	.3380	2.204	546.4
168	191.25	.89000	680.00	.9980-01	.7120-01	.1331	.9189	.3368-02	.6297-02	.3910	2.584	549.5
168	191.25	.90000	681.00	.1090	.7680-01	.1473	.9189	.3633-02	.6971-02	.4100	2.752	552.8
168	191.25	.91000	682.00	.2470-01	.1740-01	.3350-01	.9189	.8226-03	.1584-02	.9200-01	.6710	553.2
168	191.25	.92600	683.00	.5810-01	.3850-01	.8490-01	.9189	.1824-02	.4015-02	.1800	1.306	566.6
168	191.25	.95000	684.00	.3660-01	.2720-01	.4660-01	.9189	.1287-02	.2205-02	.1670	1.212	535.9
168	197.00	.33000	685.00	.4950-01	.3660-01	.6350-01	.9187	.1732-02	.3004-02	.2210	1.494	537.8

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F26)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
168	197.00	.34000	686.00	.4880-01	.3600-01	.6260-01	.9187	.1705-02	.2961-02	.2170	1.467	538.0
168	197.00	.35000	687.00	.5500-01	.4060-01	.7060-01	.9187	.1923-02	.3341-02	.2450	1.654	538.1
168	197.00	.36000	688.00	.1100	.8020-01	.1432	.9187	.3794-02	.6777-02	.4660	3.141	542.6
168	197.00	.37000	689.00	.1249	.9060-01	.1636	.9187	.4286-02	.7741-02	.5190	3.496	544.3
168	197.00	.37500	690.00	.1438	.1034	.1902	.9187	.4895-02	.8999-02	.5810	3.914	546.9
168	197.00	.50000	691.00	.2131	.1441	.3042	.9187	.6819-02	.1440-01	.7010	4.673	562.7
168	197.00	.60000	692.00	.1249	.9070-01	.1636	.9187	.4291-02	.7740-02	.5210	3.364	544.1
168	197.00	.70000	693.00	.2057	.1429	.2838	.9187	.6760-02	.1343-01	.7360	4.970	556.6
170	197.00	.80000	694.00	.5910-01	.4400-01	.7540-01	.9187	.2080-02	.3567-02	.2700	1.705	535.8
192	197.00	.87000	695.00	.1308	.9320-01	.1746	.9190	.4415-02	.8272-02	.5100	3.249	549.3
192	197.00	.92600	696.00	.5490-01	.3590-01	.8200-01	.9190	.1700-02	.3884-02	.1630	1.179	569.1
192	209.80	.15000-01	697.00	.2120	.1548	.2759	.9187	.7333-02	.1307-01	.9030	6.218	541.7
169	209.80	.30000-01	698.00	.4974	.3519	.4577	.9605	.1666-01	.2167-01	1.894	12.86	551.8
169	209.80	.50000-01	699.00	.4846	.3469	.4646	.9557	.1642-01	.2199-01	1.923	12.21	548.5
169	209.80	.70000-01	700.00	.4473	.3066	.4524	.9468	.1451-01	.2141-01	1.535	10.31	559.8
169	209.80	.10000+00	701.00	.3064	.2165	.3344	.9399	.1025-01	.1583-01	1.163	7.391	552.1
169	209.80	.15000	702.00	.1648	.1186	.1981	.9283	.5615-02	.9379-02	.6670	4.772	546.7
169	209.80	.20000	703.00	.7080-01	.5260-01	.8850-01	.9210	.2489-02	.4191-02	.3220	2.159	536.0
169	209.80	.30000	704.00	.3980-01	.2940-01	.5140-01	.9184	.1390-02	.2434-02	.1760	1.251	539.0
169	209.80	.35000	705.00	.8160-01	.6010-01	.1055	.9184	.2845-02	.4995-02	.3590	2.467	539.3
169	209.80	.37500	706.00	.9960-01	.7240-01	.1306	.9184	.3427-02	.6181-02	.4180	2.873	543.6
169	209.80	.50000	707.00	.1183	.8380-01	.1600	.9184	.3965-02	.7572-02	.4520	3.087	551.5
169	209.80	.60000	708.00	.5920-01	.4360-01	.7630-01	.9184	.2066-02	.3613-02	.2620	1.677	538.7
169	209.80	.70000	709.00	.6080-01	.4400-01	.8000-01	.9184	.2084-02	.3785-02	.2520	1.607	544.7
169	209.80	.80000	710.00	.5360-01	.3950-01	.6920-01	.9184	.1871-02	.3275-02	.2370	1.483	538.9
169	209.80	.87000	711.00	.6270-01	.4540-01	.8270-01	.9184	.2147-02	.3913-02	.2580	1.635	545.2
169	217.70	.15000-01	713.00	.2009	.1483	.2592	.9183	.7020-02	.1227-01	.8920	6.172	538.4
169	217.70	.30000-01	714.00	.4675	.3339	.4372	.9587	.1580-01	.2069-01	1.840	12.50	549.1
169	217.70	.50000-01	715.00	.4415	.3179	.4293	.9536	.1505-01	.2032-01	1.789	11.67	546.7
169	217.70	.70000-01	716.00	.5582	.3698	.5754	.9471	.1750-01	.2723-01	1.725	11.65	567.0
169	217.70	.10000+00	717.00	.3274	.2334	.3611	.9384	.1105-01	.1709-01	1.281	8.295	549.6
169	217.70	.15000	718.00	.2161	.1507	.2694	.9272	.7133-02	.1275-01	.7840	5.711	555.7
169	217.70	.20000	719.00	.1037	.7660-01	.1313	.9204	.3628-02	.6213-02	.4620	3.129	538.2
169	217.70	.30000	720.00	.3540-01	.2610-01	.4570-01	.9183	.1237-02	.2165-02	.1570	1.127	538.7
169	217.70	.35000	721.00	.7240-01	.5360-01	.9320-01	.9183	.2537-02	.4413-02	.3250	2.250	537.6
169	217.70	.37500	722.00	.8930-01	.6560-01	.1158	.9183	.3107-02	.5482-02	.3900	2.711	540.1
169	217.70	.50000	723.00	.1377	.9870-01	.1838	.9183	.4671-02	.8699-02	.5490	3.788	548.1
169	217.70	.60000	724.00	.5380-01	.3980-01	.6930-01	.9183	.1882-02	.3280-02	.2400	1.541	539.0
169	217.70	.70000	725.00	.8360-01	.6130-01	.1086	.9183	.2900-02	.5142-02	.3620	2.307	540.8
169	217.70	.80000	726.00	.6240-01	.4630-01	.7990-01	.9183	.2192-02	.3784-02	.2830	1.790	536.3
169	217.70	.87000	727.00	.9120-01	.6640-01	.1195	.9183	.3144-02	.5656-02	.3850	2.465	543.1
169	217.70	.92600	728.00	.9330-01	.6520-01	.1286	.9183	.3085-02	.6085-02	.3400	2.463	555.3

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = -5.000 BETA = -6.000 GRIT = 4.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
117	5.500	4.984	-5.040	6.000	50.00	177.9	.1910	741.0	105.1	4.049	2763.	.1526-03
136	5.500	4.948	-5.030	6.000	50.00	177.4	.1910	743.0	105.4	4.039	2767.	.1518-03
137	5.500	4.962	-5.030	6.000	50.00	177.7	.1910	743.0	105.3	4.045	2766.	.1521-03
138	5.500	4.946	-5.040	6.000	50.00	177.7	.1910	744.0	105.5	4.043	2769.	.1518-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
117	.8462-07	.4477-01	.1362-01
136	.8488-07	.4473-01	.1367-01
137	.8480-07	.4476-01	.1365-01
138	.8497-07	.4476-01	.1367-01

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
137	.00000	.30000-02	730.00	.3415	.2727	.3323	.9555	.1221-01	.1487-01	2.251	15.37	558.2
137	.00000	.10300-01	731.00	.7300-01	.6020-01	.8670-01	.9130	.2692-02	.3879-02	.5690	3.948	531.4
137	.00000	.15000-01	732.00	.4190-01	.3460-01	.4970-01	.9130	.1550-02	.2222-02	.3310	2.274	529.0
137	.00000	.25000-01	734.00	.1107	.9050-01	.1107	.9501	.4052-02	.4954-02	.8250	5.637	538.9
137	.00000	.30000-01	735.00	.3181	.2553	.3205	.9485	.1142-01	.1435-01	2.148	14.64	554.6
137	.00000	.40000-01	737.00	.3431	.2767	.3481	.9470	.1238-01	.1558-01	2.374	15.46	550.8
137	.00000	.45000-01	738.00	.3380	.2726	.3459	.9453	.1220-01	.1548-01	2.339	15.46	550.9
137	.00000	.60000-01	739.00	.2840	.2264	.2986	.9404	.1013-01	.1337-01	1.856	12.39	559.5
137	.00000	.70000-01	740.00	.2387	.1913	.2547	.9373	.8561-02	.1140-01	1.600	10.77	555.7
137	.00000	.80000-01	741.00	.2042	.1641	.2211	.9344	.7346-02	.9895-02	1.389	10.07	553.5
137	.00000	.10000+00	742.00	.1561	.1265	.1731	.9291	.5660-02	.7748-02	1.107	7.393	547.1
137	.00000	.12500	743.00	.1148	.9280-01	.1313	.9234	.4153-02	.5876-02	.8060	5.857	548.5
137	.00000	.15000	744.00	.8010-01	.6520-01	.9350-01	.9187	.2918-02	.4187-02	.5810	4.047	543.5
137	.00000	.17500	745.00	.4240-01	.3470-01	.5010-01	.9153	.1551-02	.2241-02	.3170	2.390	538.4
137	.00000	.20000	746.00	.3650-01	.2990-01	.4350-01	.9133	.1335-02	.1946-02	.2770	1.990	536.0
137	.00000	.21500	747.00	.2000-01	.1640-01	.2380-01	.9130	.7331-03	.1065-02	.1520	1.059	535.3

(RV7F28)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
137	.00000	.23000	748.00	.1370-01	.1130-01	.1640-01	.9130	.5035-03	.7319-03	.1040	.7750	535.5
137	.00000	.24000	749.00	.9700-02	.8000-02	.1160-01	.9130	.3577-03	.5192-03	.7400-01	.5640	534.9
137	.00000	.25000	750.00	.3500-02	.2900-02	.4200-02	.9130	.1294-03	.1872-03	.2700-01	.2210	533.1
137	.00000	.30000	751.00	.5500-02	.4500-02	.6600-02	.9130	.2028-03	.2942-03	.4200-01	.2790	534.6
137	.00000	.35000	752.00	.1810-01	.1480-01	.2160-01	.9130	.6641-03	.9677-03	.1370	.8690	536.6
137	.00000	.40000	753.00	.3350-01	.2740-01	.4010-01	.9130	.1227-02	.1796-02	.2500	1.615	538.7
137	.00000	.50000	754.00	.1590-01	.1300-01	.1910-01	.9130	.5835-03	.8535-03	.1190	.7830	538.4
137	.00000	.60000	755.00	.2330-01	.1910-01	.2780-01	.9130	.8539-03	.1245-02	.1760	1.131	537.1
137	.00000	.70000	756.00	.2810-01	.2310-01	.3360-01	.9130	.1032-02	.1502-02	.2130	1.415	536.0
137	.00000	.80000	757.00	.3220-01	.2640-01	.3840-01	.9130	.1183-02	.1718-02	.2460	1.550	534.9
137	.00000	.90000	758.00	.6900-02	.5700-02	.8200-02	.9130	.2556-03	.3680-03	.5400-01	.3530	531.0
137	55.000	.22000	759.00	.4070-01	.3330-01	.4830-01	.9149	.1491-02	.2160-02	.3040	2.274	538.5
137	55.000	.25000	760.00	.2030-01	.1670-01	.2410-01	.9133	.7452-03	.1080-02	.1550	1.218	535.1
137	55.000	.27000	761.00	.2670-01	.2190-01	.3180-01	.9133	.9792-03	.1422-02	.2020	1.514	536.0
137	55.000	.30000	762.00	.4710-01	.3850-01	.5620-01	.9133	.1723-02	.2516-02	.3520	2.123	538.5
137	55.000	.32000	763.00	.5150-01	.4210-01	.6160-01	.9133	.1885-02	.2758-02	.3830	2.274	539.4
137	55.000	.34000	764.00	.5160-01	.4220-01	.6180-01	.9133	.1887-02	.2767-02	.3820	2.273	540.2
137	55.000	.36000	765.00	.8190-01	.6650-01	.9870-01	.9133	.2975-02	.4416-02	.5870	3.530	545.4
137	55.000	.38000	766.00	.6900-01	.5620-01	.8280-01	.9133	.2514-02	.3704-02	.5030	3.067	542.4
137	55.000	.40000	767.00	.3780-01	.3100-01	.4520-01	.9133	.1385-02	.2022-02	.2830	1.778	538.2
137	67.500	.23000	768.00	.3960-01	.3240-01	.4700-01	.9147	.1448-02	.2102-02	.2950	2.202	539.1
137	67.500	.25000	769.00	.2510-01	.2050-01	.2980-01	.9139	.9196-03	.1334-02	.1890	1.481	536.6
137	67.500	.27000	770.00	.3710-01	.3040-01	.4420-01	.9139	.1360-02	.1980-02	.2780	2.036	538.3
137	67.500	.29000	771.00	.4390-01	.3590-01	.5240-01	.9139	.1606-02	.2343-02	.3260	2.029	539.5
137	67.500	.30000	772.00	.7420-01	.6040-01	.8890-01	.9139	.2702-02	.3978-02	.5390	3.299	543.2
137	67.500	.31000	773.00	.8390-01	.6820-01	.1005	.9139	.3054-02	.4498-02	.6080	3.695	543.4
137	67.500	.32000	774.00	.1071	.8670-01	.1291	.9139	.3878-02	.5777-02	.7540	4.533	548.1
137	67.500	.32500	775.00	.1264	.1019	.1529	.9139	.4558-02	.6845-02	.8730	5.249	551.2
137	67.500	.33000	776.00	.1366	.1099	.1657	.9139	.4918-02	.7417-02	.9330	5.626	552.8
137	67.500	.33500	777.00	.1458	.1171	.1772	.9139	.5239-02	.7928-02	.9830	5.948	554.1
137	67.500	.34000	778.00	.1460	.1172	.1773	.9139	.5246-02	.7937-02	.9900	5.961	554.0
137	67.500	.34500	779.00	.1450	.1164	.1761	.9139	.5211-02	.7883-02	.9830	5.939	553.9
137	67.500	.35000	780.00	.1366	.1099	.1658	.9139	.4917-02	.7419-02	.9320	5.649	553.0
137	67.500	.35500	781.00	.1374	.1105	.1668	.9139	.4944-02	.7467-02	.9350	5.683	553.4
137	67.500	.36000	782.00	.1304	.1051	.1578	.9139	.4704-02	.7061-02	.9010	5.482	551.0
137	67.500	.36500	783.00	.1058	.8560-01	.1275	.9139	.3830-02	.5705-02	.7450	4.526	548.1
137	67.500	.37000	784.00	.8620-01	.6990-01	.1036	.9139	.3129-02	.4637-02	.6150	3.761	546.0
137	67.500	.37500	785.00	.7390-01	.6010-01	.8850-01	.9139	.2689-02	.3963-02	.5350	3.303	543.6
137	67.500	.38000	786.00	.6200-01	.5050-01	.7420-01	.9139	.2262-02	.3320-02	.4540	2.811	542.0
137	67.500	.39000	787.00	.5270-01	.4310-01	.6290-01	.9139	.1928-02	.2815-02	.3920	2.436	539.5
138	67.500	.50000	789.00	.1010-01	.8300-02	.1190-01	.9139	.3701-03	.5335-03	.7700-01	.4990	533.8
138	67.500	.60000	790.00	.9100-02	.7500-02	.1090-01	.9139	.3361-03	.4857-03	.7000-01	.4610	535.0
138	67.500	.70000	791.00	.1210-01	.9900-02	.1440-01	.9139	.4422-03	.6428-03	.9100-01	.6430	537.6

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F28)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
138	67.500	.80000	792.00	.2600-01	.2130-01	.3090-01	.9139	.9518-03	.1382-02	.1950	1.234	537.3
138	67.500	.90000	793.00	.4610-01	.3750-01	.5510-01	.9139	.1678-02	.2468-02	.3350	2.165	542.9
138	78.000	.27000	794.00	.4670-01	.3810-01	.5560-01	.9145	.1705-02	.2488-02	.3440	2.461	540.8
138	78.000	.29000	795.00	.9180-01	.7440-01	.1102	.9145	.3330-02	.4931-02	.6510	4.014	547.0
138	78 000	.30000	796.00	.1665	.1331	.2025	.9145	.5957-02	.9064-02	1.106	6.664	558.4
138	78.000	.31000	797.00	.2203	.1745	.2709	.9145	.7810-02	.1212-01	1.396	8.385	565.3
138	78.000	.32000	798.00	.2317	.1834	.2851	.9145	.8210-02	.1276-01	1.465	8.749	565.6
138	78.000	.32500	799.00	.2284	.1809	.2807	.9145	.8095-02	.1256-01	1.448	8.671	565.2
138	78.000	.33500	801.00	.2194	.1731	.2708	.9145	.7749-02	.1212-01	1.366	8.174	567.7
138	78.000	.34000	802.00	.2118	.1672	.2612	.9145	.7485-02	.1169-01	1.323	7.918	567.2
138	78.000	.34500	803.00	.2451	.1939	.3017	.9145	.8677-02	.1350-01	1.545	9.274	566.0
138	78.000	.35000	804.00	.2438	.1935	.2991	.9145	.8660-02	.1339-01	1.560	9.375	563.9
138	78.000	.35500	805.00	.2163	.1722	.2643	.9145	.7708-02	.1183-01	1.407	8.469	561.4
138	78.000	.36000	806.00	.1936	.1545	.2359	.9145	.6918-02	.1056-01	1.276	7.705	559.6
138	78.000	.36500	807.00	.1606	.1288	.1947	.9145	.5767-02	.8716-02	1.084	6.577	556.0
138	78.000	.37000	808.00	.1235	.9970-01	.1487	.9145	.4464-02	.6656-02	.8620	5.259	550.9
138	78.000	.37500	809.00	.9820-01	.7970-01	.1176	.9145	.3566-02	.5264-02	.7030	4.297	546.8
138	78.000	.38000	810.00	.6840-01	.5580-01	.8160-01	.9145	.2496-02	.3654-02	.5010	3.084	543.3
138	78.000	.39000	811.00	.4800-01	.3930-01	.5710-01	.9145	.1759-02	.2554-02	.3600	2.224	539.6
138	78.000	.40000	812.00	.3960-01	.3250-01	.4690-01	.9145	.1453-02	.2098-02	.3010	1.864	536.9
117	90.000	.40000-01	985.00	.3644	.2899	.3379	.9653	.1298-01	.1513-01	2.352	15.20	559.8
117	90.000	.50000-01	986.00	.4159	.3303	.3920	.9618	.1478-01	.1755-01	2.659	17.08	561.1
117	90.000	.60000-01	987.00	.4399	.3382	.4190	.9583	.1514-01	.1876-01	2.424	15.69	580.9
117	90.000	.70000-01	988.00	.4184	.3228	.4065	.9549	.1445-01	.1820-01	2.345	15.51	578.8
117	90.000	.80000-01	989.00	.3648	.2830	.3614	.9516	.1267-01	.1618-01	2.095	14.63	575.7
117	90.000	.10000+00	990.00	.2914	.2297	.2988	.9453	.1028-01	.1338-01	1.801	11.64	565.9
117	90.000	.15000	991.00	.1622	.1280	.1800	.9315	.5732-02	.8058-02	1.007	7.329	565.3
138	90.000	.20000	813.00	.5890-01	.4810-01	.6930-01	.9163	.2152-02	.3104-02	.4370	3.185	541.0
138	90.000	.24000	814.00	.4960-01	.4050-01	.5870-01	.9152	.1813-02	.2629-02	.3690	2.994	540.6
138	90.000	.27000	816.00	.5080-01	.4150-01	.6010-01	.9152	.1858-02	.2692-02	.3780	2.699	540.3
138	90.000	.29000	817.00	.1745	.1375	.2148	.9152	.6156-02	.9615-02	1.080	6.639	568.6
138	90.000	.30000	818.00	.3541	.2692	.4536	.9152	.1205-01	.2030-01	1.871	11.20	588.7
138	90.000	.31000	819.00	.3777	.2903	.4780	.9152	.1299-01	.2139-01	2.088	12.43	583.3
138	90.000	.32000	820.00	.3543	.2734	.4463	.9152	.1224-01	.1998-01	1.993	11.84	581.1
138	90.000	.32500	821.00	.3459	.2667	.4360	.9152	.1194-01	.1951-01	1.941	11.50	581.5
138	90.000	.33000	822.00	.3154	.2413	.4011	.9152	.1080-01	.1795-01	1.711	10.15	585.6
138	90.000	.33500	823.00	.2803	.2121	.3612	.9152	.9494-02	.1617-01	1.452	8.607	591.1
138	90.000	.34000	824.00	.4579	.3398	.6041	.9152	.1521-01	.2704-01	2.194	12.88	599.0
138	90.000	.34500	825.00	.5334	.3896	.7179	.9152	.1744-01	.3213-01	2.406	14.12	606.0
138	90.000	.35000	826.00	.6475	.4468	.9424	.9152	.2000-01	.4218-01	2.400	13.96	624.0
138	90.000	.36000	828.00	.3833	.2877	.4987	.9152	.1288-01	.2232-01	1.920	11.30	594.9
138	90.000	.36500	829.00	.2082	.1649	.2546	.9152	.7382-02	.1140-01	1.322	7.922	564.9
138	90.000	.37000	830.00	.1506	.1218	.1804	.9152	.5450-02	.8073-02	1.059	6.408	549.8

ORIGINAL PAGE IS

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F2B)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
138	90.000	.37500	831.00	.1138	.9270-01	.1353	.9152	.4150-02	.6055-02	.8320	5.081	543.5
138	90.000	.38000	832.00	.6780-01	.5540-01	.8030-01	.9152	.2479-02	.3593-02	.5050	3.086	540.5
138	90.000	.39000	833.00	.6900-01	.5610-01	.8210-01	.9152	.2510-02	.3674-02	.5000	3.083	544.9
138	90.000	.40000	834.00	.8320-01	.6760-01	.9920-01	.9152	.3026-02	.4439-02	.6000	3.709	545.8
138	90.000	.50000	835.00	.3550-01	.2910-01	.4200-01	.9152	.1303-02	.1880-02	.2680	1.700	538.4
138	90.000	.60000	836.00	.4150-01	.3390-01	.4920-01	.9152	.1517-02	.2201-02	.3080	2.055	541.2
138	90.000	.70000	837.00	.5990-01	.4870-01	.7130-01	.9152	.2181-02	.3191-02	.4350	3.064	544.6
138	90.000	.80000	838.00	.9200-01	.7480-01	.1095	.9152	.3349-02	.4900-02	.6680	4.154	544.6
138	90.000	.90000	839.00	.5570-01	.4510-01	.6670-01	.9152	.2018-02	.2984-02	.3930	2.512	549.1
138	90.000	.90000	839.00	.6020-01	.4900-01	.7070-01	.9175	.2193-02	.3165-02	.4380	3.537	544.2
138	112.50	.23000	840.00	.1960-01	.1600-01	.2310-01	.9162	.7150-03	.1032-02	.1450	1.128	541.2
138	112.50	.25000	841.00	.1070	.8670-01	.1271	.9162	.3880-02	.5690-02	.7610	4.524	547.9
138	112.50	.30000	843.00	.1878	.1485	.2288	.9162	.6646-02	.1024-01	1.181	7.052	566.3
138	112.50	.33000	844.00	.2635	.2063	.3243	.9162	.9234-02	.1451-01	1.584	9.580	572.5
138	112.50	.35000	845.00	.2004	.1596	.2423	.9162	.7143-02	.1085-01	1.305	7.982	561.4
138	112.50	.37000	846.00	.9680-01	.7880-01	.1146	.9162	.3526-02	.5131-02	.7030	4.386	544.6
138	112.50	.40000	847.00	.6910-01	.5640-01	.8140-01	.9162	.2525-02	.3645-02	.5120	3.230	541.1
138	112.50	.45000	848.00	.5550-01	.4540-01	.6550-01	.9162	.2030-02	.2931-02	.4120	2.660	540.9
138	112.50	.50000	849.00	.5790-01	.4740-01	.6820-01	.9162	.2120-02	.3054-02	.4320	2.897	540.1
138	112.50	.55000	850.00	.6170-01	.5040-01	.7280-01	.9162	.2255-02	.3259-02	.4570	3.067	541.6
138	112.50	.60000	851.00	.6710-01	.5460-01	.7950-01	.9162	.2445-02	.3557-02	.4870	3.320	544.6
138	112.50	.65000	852.00	.1372	.1105	.1641	.9162	.4945-02	.7345-02	.9440	6.603	553.1
138	112.50	.70000	853.00	.1190	.9650-01	.1414	.9162	.4321-02	.6328-02	.8500	5.512	547.3
138	112.50	.75000	854.00	.1064	.8640-01	.1262	.9162	.3865-02	.5648-02	.7640	4.972	546.3
138	112.50	.80000	855.00	.1408	.1131	.1687	.9162	.5064-02	.7552-02	.9590	6.197	554.6
138	112.50	.90000	856.00	.1014	.8220-01	.1205	.9164	.3677-02	.5392-02	.7190	4.443	548.4
138	125.40	.84000	857.00	.1028	.8340-01	.1220	.9164	.3732-02	.5460-02	.7340	4.559	547.4
138	125.40	.85000	858.00	.7330-01	.5960-01	.8670-01	.9164	.2669-02	.3883-02	.5110	3.331	545.0
138	125.40	.86000	859.00	.7300-01	.5940-01	.8630-01	.9164	.2659-02	.3865-02	.5300	3.336	544.6
138	125.40	.87000	860.00	.8650-01	.7030-01	.1024	.9164	.3146-02	.4585-02	.6230	3.918	545.9
138	125.40	.88000	861.00	.1263	.1019	.1506	.9164	.4562-02	.6740-02	.8930	5.537	551.5
138	125.40	.89000	862.00	.1478	.1189	.1766	.9164	.5324-02	.7906-02	1.014	6.422	553.6
138	125.40	.90000	863.00	.1531	.1220	.1848	.9164	.5460-02	.8270-02	1.000	7.216	560.9
138	125.40	.91000	864.00	.2210	.1723	.2728	.9164	.7711-02	.1221-01	1.302	9.298	575.2
138	125.40	.92600	865.00	.7370-01	.5990-01	.8710-01	.9164	.2681-02	.3898-02	.5340	3.356	545.0
138	129.30	.80000	866.00	.7260-01	.5900-01	.8570-01	.9164	.2643-02	.3837-02	.5280	3.303	544.3
138	129.30	.81000	867.00	.7600-01	.6190-01	.8980-01	.9164	.2769-02	.4018-02	.5540	3.469	543.9
138	129.30	.82000	868.00	.8580-01	.6960-01	.1018	.9164	.3114-02	.4557-02	.6120	3.831	547.6
138	129.30	.83000	869.00	.4023	.3194	.3669	.9686	.1430-01	.1642-01	2.582	16.46	563.4
138	135.00	.40000-01	870.00	.4981	.3966	.4625	.9651	.1775-01	.2070-01	3.238	20.55	561.6
138	135.00	.50000-01	871.00	.4969	.3836	.4650	.9616	.1717-01	.2081-01	2.804	18.31	580.7
138	135.00	.60000-01	872.00	.4432	.3442	.4233	.9582	.1540-01	.1894-01	2.565	17.18	577.5
138	135.00	.70000-01	873.00	.3288	.2609	.3315	.9485	.1168-01	.1484-01	2.104	13.69	563.9
138	135.00	.10000+00	875.00									

DATE 03 JUN 76 AEDC V41A-A4A (1H-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F28)

1H41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
138	135.00	.15000	876.00	.2024	.1608	.2204	.9342	.7198-02	.9866-02	1.303	9.460	563.0
138	135.00	.20000	877.00	.1111	.9010-01	.1273	.9228	.4031-02	.5697-02	.7910	5.332	547.7
138	135.00	.35000	878.00	.9250-01	.7520-01	.1095	.9164	.3367-02	.4899-02	.6700	4.167	545.1
138	135.00	.40000	879.00	.1063	.8610-01	.1264	.9164	.3852-02	.5656-02	.7520	4.758	548.9
138	135.00	.50000	880.00	.1140	.9180-01	.1362	.9164	.4107-02	.6096-02	.7830	5.360	553.3
138	135.00	.55000	881.00	.1257	.1012	.1503	.9164	.4529-02	.6725-02	.8620	5.725	553.6
138	135.00	.60000	882.00	.1135	.9150-01	.1352	.9164	.4097-02	.6053-02	.7890	5.287	551.6
138	135.00	.65000	883.00	.1059	.8540-01	.1262	.9164	.3821-02	.5650-02	.7340	4.997	551.9
138	135.00	.70000	884.00	.9420-01	.7640-01	.1116	.9164	.3422-02	.4995-02	.6760	4.803	546.6
138	135.00	.75000	885.00	.5780-01	.4700-01	.6830-01	.9164	.2104-02	.3055-02	.4210	2.655	544.1
138	135.00	.80000	886.00	.5970-01	.4870-01	.7040-01	.9164	.2178-02	.3153-02	.4380	2.759	542.8
138	135.00	.84000	887.00	.9730-01	.7860-01	.1160	.9164	.3517-02	.5191-02	.6780	4.254	551.1
117	135.00	.85000	888.00	.1078	.8620-01	.1296	.9164	.3857-02	.5803-02	.7130	4.496	556.2
117	135.00	.86000	889.00	.6780-01	.5450-01	.8100-01	.9164	.2441-02	.3626-02	.4620	2.916	551.6
117	135.00	.87000	890.00	.8710-01	.7010-01	.1041	.9164	.3137-02	.4661-02	.5940	3.769	551.5
117	135.00	.88000	891.00	.9250-01	.7430-01	.1108	.9164	.3326-02	.4961-02	.6250	3.983	553.1
117	135.00	.89000	892.00	.1127	.9020-01	.1353	.9164	.4038-02	.6059-02	.7500	4.860	555.2
117	135.00	.90000	893.00	.1564	.1248	.1885	.9164	.5588-02	.8438-02	1.025	6.709	557.6
117	135.00	.91000	894.00	.1142	.9100-01	.1378	.9164	.4072-02	.6169-02	.7420	5.383	558.7
117	135.00	.92600	895.00	.1003	.7930-01	.1219	.9164	.3551-02	.5457-02	.6300	4.541	563.6
117	135.00	.95000	896.00	.6990-01	.5640-01	.8330-01	.9164	.2527-02	.3731-02	.4850	3.499	549.1
117	142.30	.42000	897.00	.9730-01	.7760-01	.1175	.9163	.3473-02	.5262-02	.6340	4.051	558.5
117	142.30	.43500	898.00	.2163	.1700	.2650	.9163	.7611-02	.1186-01	1.317	8.146	567.9
117	142.30	.45000	899.00	.2054	.1614	.2517	.9163	.7226-02	.1127-01	1.250	8.093	568.0
117	142.30	.50000	900.00	.1261	.1000+00	.1530	.9163	.4479-02	.6850-02	.8020	5.305	561.8
117	142.30	.60000	901.00	.1296	.1035	.1561	.9163	.4635-02	.6987-02	.8540	5.646	556.7
117	142.30	.70000	902.00	.8630-01	.6940-01	.1032	.9163	.3107-02	.4619-02	.5890	4.007	551.6
117	142.30	.80000	903.00	.6360-01	.5140-01	.7570-01	.9163	.2301-02	.3391-02	.4440	2.820	548.1
117	142.30	.87000	904.00	.8120-01	.6510-01	.9760-01	.9163	.2913-02	.4367-02	.5430	3.417	554.7
117	154.98	.42000	905.00	.1770	.1396	.2164	.9161	.6249-02	.9685-02	1.096	6.998	565.7
117	154.98	.43500	906.00	.2311	.1823	.2824	.9161	.8159-02	.1264-01	1.431	9.196	565.6
117	154.98	.45000	907.00	.1735	.1380	.2103	.9161	.6177-02	.9415-02	1.117	7.238	560.2
117	154.98	.50000	908.00	.1581	.1252	.1923	.9161	.5607-02	.8607-02	1.000	7.100	562.6
117	154.98	.93500	913.00	.3288	.2454	.4274	.9161	.1098-01	.1913-01	1.604	11.39	595.0
117	154.98	.94500	914.00	.1301	.9940-01	.1646	.9161	.4452-02	.7371-02	.6990	4.941	584.0
117	157.50	.80000-01	919.00	.3723	.2897	.3654	.9533	.1297-01	.1636-01	2.166	14.59	574.0
117	157.50	.20000	922.00	.9970-01	.8020-01	.1156	.9219	.3591-02	.5174-02	.6800	4.515	551.8
117	157.50	.42000	923.00	.1767	.1404	.2147	.9158	.6286-02	.9610-02	1.134	7.350	560.6
117	157.50	.43500	924.00	.1739	.1379	.2117	.9158	.6175-02	.9475-02	1.107	7.186	561.8
117	157.50	.45000	925.00	.1788	.1416	.2180	.9158	.6340-02	.9757-02	1.130	7.398	562.8
117	157.50	.85000	926.00	.4300-01	.3460-01	.5150-01	.9158	.1549-02	.2307-02	.2940	1.897	551.1
117	157.50	.86000	927.00	.5050-01	.4070-01	.6040-01	.9158	.1821-02	.2702-02	.3490	2.258	549.6
117	157.50	.87000	928.00	.5470-01	.4400-01	.6560-01	.9158	.1970-02	.2936-02	.3740	2.427	551.2

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F26)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
117	157.50	.88000	929.00	.8150-01	.6530-01	.9820-01	.9158	.2925-02	.4394-02	.5480	3.560	554.3
117	157.50	.89000	930.00	.9060-01	.7220-01	.1097	.9158	.3233-02	.4910-02	.5910	3.865	558.3
117	157.50	.90000	931.00	.9250-01	.7350-01	.1124	.9158	.3292-02	.5032-02	.5940	3.977	560.6
117	157.50	.91000	932.00	.6600-01	.5210-01	.8070-01	.9158	.2332-02	.3612-02	.4110	2.979	564.9
117	157.50	.92600	933.00	.1075	.8200-01	.1364	.9158	.3671-02	.6108-02	.5740	4.111	584.6
117	163.12	.41500	934.00	.1582	.1263	.1915	.9155	.5655-02	.8571-02	1.040	6.714	557.0
117	163.12	.42000	935.00	.1755	.1395	.2133	.9155	.6246-02	.9550-02	1.130	7.346	560.1
117	163.12	.43000	937.00	.2289	.1799	.2818	.9155	.8056-02	.1261-01	1.395	9.062	567.8
117	163.12	.44000	938.00	.2664	.2067	.3328	.9155	.9251-02	.1490-01	1.528	9.654	575.8
117	163.12	.44500	939.00	.2669	.2069	.3338	.9155	.9261-02	.1494-01	1.525	9.979	576.4
117	163.12	.45000	940.00	.2385	.1861	.2959	.9155	.8333-02	.1325-01	1.406	9.220	572.3
117	163.12	.50000	941.00	.1399	.1110	.1705	.9155	.4967-02	.7631-02	.8910	5.997	561.7
117	163.12	.60000	942.00	.1347	.1075	.1632	.9155	.4813-02	.7304-02	.8830	5.666	557.5
117	163.12	.70000	943.00	.6120-01	.4940-01	.7340-01	.9155	.2212-02	.3285-02	.4240	2.905	549.4
117	163.12	.80000	944.00	.5690-01	.4600-01	.6800-01	.9155	.2058-02	.3044-02	.3980	2.593	547.8
117	168.00	.35000	945.00	.6540-01	.5290-01	.7810-01	.9153	.2369-02	.3497-02	.4610	2.922	546.4
117	168.00	.36000	946.00	.5040-01	.4070-01	.6040-01	.9153	.1823-02	.2705-02	.3510	2.229	548.5
117	168.00	.37000	947.00	.5650-01	.4560-01	.6770-01	.9153	.2039-02	.3031-02	.3910	2.491	549.1
117	168.00	.37500	948.00	.6370-01	.5140-01	.7640-01	.9153	.2299-02	.3418-02	.4410	2.808	549.2
117	168.00	.38500	950.00	.8460-01	.6830-01	.1014	.9153	.3058-02	.4539-02	.5880	3.790	548.7
117	168.00	.39000	951.00	.1165	.9360-01	.1403	.9153	.4192-02	.6281-02	.7910	5.117	552.3
117	168.00	.39500	952.00	.1164	.9360-01	.1403	.9153	.4188-02	.6279-02	.7900	5.035	552.4
117	168.00	.40000	953.00	.1120	.9000-01	.1349	.9153	.4030-02	.6041-02	.7600	4.932	552.4
117	168.00	.40500	954.00	.1138	.9120-01	.1373	.9153	.4084-02	.6146-02	.7650	4.971	553.8
117	168.00	.41000	955.00	.1166	.9330-01	.1410	.9153	.4178-02	.6311-02	.7760	5.041	555.3
117	168.00	.41500	956.00	.1433	.1143	.1739	.9153	.5117-02	.7784-02	.9380	6.103	557.7
117	168.00	.42000	957.00	.1755	.1393	.2141	.9153	.6238-02	.9587-02	1.121	7.305	561.3
117	168.00	.42500	958.00	.1939	.1535	.2371	.9153	.6873-02	.1061-01	1.224	7.970	562.9
117	168.00	.43000	959.00	.2985	.2307	.3750	.9153	.1033-01	.1679-01	1.685	10.85	577.9
117	168.00	.44000	960.00	.3081	.2394	.3849	.9153	.1072-01	.1723-01	1.779	11.51	575.0
117	168.00	.44500	961.00	.2992	.2324	.3738	.9153	.1040-01	.1673-01	1.727	11.17	575.1
117	168.00	.45000	962.00	.2557	.1990	.3187	.9153	.8907-02	.1427-01	1.488	9.692	573.9
117	168.00	.45500	963.00	.2203	.1718	.2738	.9153	.7693-02	.1226-01	1.297	8.450	572.5
117	168.00	.46000	964.00	.2126	.1657	.2646	.9153	.7416-02	.1184-01	1.245	8.163	573.1
117	168.00	.47000	965.00	.1883	.1475	.2330	.9153	.6601-02	.1043-01	1.129	7.431	570.0
117	168.00	.48000	966.00	.1692	.1333	.2081	.9153	.5968-02	.9314-02	1.043	6.940	566.3
117	168.00	.49000	967.00	.1374	.1099	.1662	.9153	.4919-02	.7440-02	.9110	6.098	565.8
117	168.00	.85000	968.00	.7070-01	.5690-01	.8500-01	.9153	.2549-02	.3805-02	.4850	3.138	550.8
117	168.00	.86000	969.00	.6080-01	.4890-01	.7330-01	.9153	.2187-02	.3281-02	.4120	2.672	552.7
117	168.00	.87000	970.00	.5390-01	.4320-01	.6510-01	.9153	.1934-02	.2914-02	.3610	2.348	554.2
117	168.00	.88000	971.00	.1069	.8510-01	.1300	.9153	.3811-02	.5818-02	.6930	4.509	559.1
117	168.00	.89000	972.00	.1456	.1153	.1782	.9153	.5160-02	.7977-02	.9180	6.044	563.2
117	168.00	.90000	973.00	.1541	.1214	.1897	.9153	.5433-02	.8494-02	.9470	6.376	566.8

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F26)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
117	168.00	.91000	974.00	.8230-01	.6450-01	.1018	.9153	.2889-02	.4557-02	.4960	3.574	569.5
117	168.00	.92600	975.00	.9810-01	.7270-01	.1295	.9153	.3253-02	.5796-02	.4660	3.289	597.9
117	168.00	.95000	976.00	.1061	.8540-01	.1277	.9153	.3822-02	.5716-02	.7240	5.200	551.6
117	180.00	.20000-01	982.00	.2093	.1694	.1923	.9687	.7582-02	.8610-02	1.474	10.25	546.7
117	180.00	.25000-01	983.00	.6753	.5247	.6162	.9667	.2349-01	.2758-01	3.903	26.59	574.9
117	180.00	.30000-01	984.00	.7386	.5726	.6793	.9651	.2563-01	.3041-01	4.226	28.60	576.1
136	180.00	.40000-01	600.00	.4199	.3355	.3931	.9635	.1501-01	.1758-01	2.774	17.73	558.4
136	180.00	.50000-01	601.00	.4431	.3550	.4221	.9600	.1588-01	.1888-01	2.969	19.05	556.3
136	180.00	.60000-01	602.00	.4469	.3486	.4309	.9566	.1559-01	.1928-01	2.634	17.31	574.3
136	180.00	.70000-01	603.00	.4102	.3202	.4029	.9532	.1432-01	.1802-01	2.425	16.32	574.0
136	180.00	.80000-01	604.00	.3931	.3091	.3932	.9499	.1383-01	.1759-01	2.404	15.46	569.4
136	180.00	.10000+00	605.00	.2696	.2149	.2785	.9437	.9613-02	.1246-01	1.762	12.56	560.1
136	180.00	.15000	606.00	.1653	.1321	.1835	.9302	.5910-02	.8208-02	1.096	7.923	557.9
136	180.00	.20000	607.00	.9030-01	.7350-01	.1047	.9199	.3289-02	.4681-02	.6590	4.305	543.1
136	180.00	.21000	608.00	.7130-01	.5820-01	.8320-01	.9183	.2601-02	.3720-02	.5250	3.638	541.4
136	180.00	.22000	609.00	.5980-01	.4880-01	.7020-01	.9169	.2183-02	.3141-02	.4420	3.300	540.7
136	180.00	.30000	610.00	.7350-01	.6010-01	.8720-01	.9146	.2689-02	.3902-02	.5490	3.775	539.1
136	180.00	.35000	611.00	.4780-01	.3900-01	.5680-01	.9146	.1746-02	.2542-02	.3540	2.362	540.7
136	180.00	.36000	612.00	.4280-01	.3490-01	.5090-01	.9146	.1559-02	.2278-02	.3140	2.114	542.1
136	180.00	.37000	613.00	.5620-01	.4580-01	.6700-01	.9146	.2050-02	.2995-02	.4120	2.777	542.2
136	180.00	.37500	614.00	.8700-01	.7070-01	.1040	.9146	.3163-02	.4651-02	.6280	4.223	544.9
136	180.00	.38000	615.00	.1122	.9090-01	.1345	.9146	.4066-02	.6019-02	.7970	5.352	547.4
136	180.00	.38500	616.00	.1065	.8790-01	.1301	.9146	.3933-02	.5819-02	.7700	5.174	547.5
136	180.00	.39000	617.00	.1001	.8110-01	.1199	.9146	.3629-02	.5361-02	.7130	4.779	546.8
136	180.00	.39500	618.00	.9180-01	.7440-01	.1100	.9146	.3328-02	.4921-02	.6520	4.397	547.3
136	180.00	.40000	618.00	.9160-01	.7410-01	.1100	.9146	.3314-02	.4918-02	.6450	4.317	548.7
136	180.00	.40500	620.00	.1084	.8730-01	.1307	.9146	.3904-02	.5847-02	.7460	4.997	552.3
136	180.00	.41000	621.00	.1475	.1181	.1790	.9146	.5284-02	.8004-02	.9870	6.600	556.5
136	180.00	.41500	622.00	.2029	.1614	.2482	.9146	.7217-02	.1110-01	1.309	8.704	561.9
136	180.00	.42500	624.00	.2711	.2127	.3365	.9146	.9515-02	.1505-01	1.642	10.87	570.8
136	180.00	.43000	625.00	.3089	.2402	.3872	.9146	.1074-01	.1732-01	1.796	11.90	576.1
136	180.00	.44000	626.00	.3465	.2631	.4468	.9146	.1177-01	.1998-01	1.817	11.96	588.9
136	180.00	.44500	627.00	.3198	.2431	.4118	.9146	.1087-01	.1842-01	1.684	11.19	588.4
136	180.00	.45000	628.00	.2649	.2043	.3352	.9146	.9139-02	.1499-01	1.486	9.909	580.7
136	180.00	.45500	629.00	.2243	.1759	.2786	.9146	.7869-02	.1246-01	1.355	9.223	571.0
136	180.00	.46000	630.00	.1845	.1465	.2260	.9146	.6553-02	.1011-01	1.183	7.888	562.8
136	180.00	.47000	631.00	.1339	.1077	.1618	.9146	.4815-02	.7237-02	.9130	6.118	553.6
136	180.00	.48000	632.00	.1231	.9840-01	.1497	.9146	.4399-02	.6694-02	.8140	5.476	559.2
136	180.00	.49000	633.00	.6190-01	.4940-01	.7540-01	.9146	.2209-02	.3374-02	.4060	2.753	559.5
136	180.00	.50000	634.00	.1105	.8820-01	.1347	.9146	.3947-02	.6023-02	.7270	5.053	559.2
136	180.00	.55000	635.00	.1162	.9300-01	.1411	.9146	.4161-02	.6312-02	.7750	5.121	557.0
136	180.00	.60000	636.00	.1116	.9000-01	.1346	.9146	.4024-02	.6020-02	.7700	4.955	551.9
136	180.00	.65000	637.00	.7940-01	.6430-01	.9510-01	.9146	.2876-02	.4254-02	.5630	3.642	547.4

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F26)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
136	180.00	.70000	638.00	.1006	.8150-01	.1207	.9146	.3645-02	.5400-02	.7120	4.871	548.0
136	180.00	.75000	639.00	.9390-01	.7660-01	.1118	.9146	.3425-02	.5001-02	.6900	4.461	541.8
136	180.00	.80000	640.00	.6910-01	.5650-01	.8210-01	.9146	.2525-02	.3671-02	.5140	3.231	539.9
136	180.00	.85000	641.00	.7960-01	.6480-01	.9500-01	.9146	.2897-02	.4248-02	.5780	3.657	543.8
136	180.00	.86000	642.00	.7310-01	.5940-01	.8740-01	.9146	.2655-02	.3911-02	.5250	3.368	545.6
136	180.00	.87000	643.00	.7950-01	.6430-01	.9550-01	.9146	.2877-02	.4270-02	.5600	3.607	548.7
136	180.00	.88000	644.00	.1703	.1366	.2065	.9146	.6109-02	.9234-02	1.146	7.419	555.8
136	180.00	.89000	645.00	.2399	.1915	.2923	.9146	.8563-02	.1308-01	1.575	10.30	559.4
136	180.00	.90000	646.00	.2254	.1300	.2745	.9146	.8050-02	.1228-01	1.483	9.909	559.0
136	180.00	.92600	648.00	.1786	.1337	.2343	.9146	.5980-02	.1048-01	.8840	6.294	595.4
136	180.00	.95000	649.00	.6560-01	.5380-01	.7750-01	.9146	.2408-02	.3467-02	.5000	3.634	535.6
136	191.25	.35000	650.00	.3700-01	.3010-01	.4420-01	.9140	.1348-02	.1975-02	.2720	1.830	541.8
136	191.25	.36000	651.00	.6030-01	.4920-01	.7210-01	.9140	.2199-02	.3224-02	.4420	2.987	542.2
136	191.25	.37000	652.00	.1120	.9070-01	.1348	.9140	.4058-02	.6027-02	.7940	5.334	547.6
136	191.25	.37500	653.00	.1069	.8660-01	.1287	.9140	.3872-02	.5757-02	.7560	5.094	548.0
136	191.25	.38000	654.00	.8210-01	.6650-01	.9880-01	.9140	.2975-02	.4418-02	.5820	3.924	547.6
136	191.25	.38500	655.00	.7250-01	.5870-01	.8730-01	.9140	.2627-02	.3903-02	.5140	3.462	547.7
136	191.25	.39000	656.00	.7660-01	.6210-01	.9220-01	.9140	.2775-02	.4124-02	.5430	3.656	547.8
136	191.25	.39500	657.00	.8920-01	.7230-01	.1074	.9140	.3233-02	.4802-02	.6330	4.263	547.6
136	191.25	.40000	658.00	.1051	.8490-01	.1269	.9140	.3799-02	.5674-02	.7350	4.961	549.9
136	191.25	.40500	659.00	.1093	.8800-01	.1325	.9140	.3937-02	.5924-02	.7500	5.058	552.7
136	191.25	.41000	660.00	.1160	.9310-01	.1411	.9140	.4164-02	.6309-02	.7830	5.258	555.2
136	191.25	.41500	661.00	.1375	.1101	.1675	.9140	.4924-02	.7493-02	.9180	6.140	556.8
136	191.25	.42000	662.00	.1870	.1480	.2309	.9140	6621-02	.1033-01	1.180	7.880	565.1
136	191.25	.42500	663.00	.2305	.1812	.2867	.9140	.8105-02	.1282-01	1.408	9.413	569.6
136	191.25	.43000	664.00	.3179	.2450	.4044	.9140	.1096-01	.1809-01	1.778	11.93	581.0
136	191.25	.44000	665.00	.3229	.2498	.4091	.9140	.1117-01	.1830-01	1.834	12.24	579.1
136	191.25	.45000	666.00	.1979	.1560	.2453	.9140	.6978-02	.1097-01	1.226	8.226	567.7
136	191.25	.45500	667.00	.1587	.1255	.1961	.9140	.5615-02	.8770-02	.9980	6.706	565.6
136	191.25	.46000	668.00	.1443	.1142	.1782	.9140	.5109-02	.7968-02	.9110	6.138	565.1
136	191.25	.47000	669.00	.1181	.9430-01	.1444	.9140	.4216-02	.6460-02	.7760	5.263	559.2
136	191.25	.48000	670.00	.1224	.9810-01	.1490	.9140	.4390-02	.6664-02	.8220	5.586	556.0
136	191.25	.49000	671.00	.1083	.8650-01	.1322	.9140	.3869-02	.5914-02	.7150	4.839	558.4
136	191.25	.50000	672.00	.1735	.1371	.2145	.9140	.6132-02	.9592-02	1.087	7.484	566.0
136	191.25	.60000	673.00	.9920-01	.8050-01	.1192	.9140	.3600-02	.5330-02	.7090	4.547	546.3
136	191.25	.70000	674.00	.9880-01	.7950-01	.1198	.9140	.3556-02	.5360-02	.6760	4.582	553.3
136	191.25	.85000	676.00	.7690-01	.6260-01	.9200-01	.9140	.2800-02	.4116-02	.5600	3.546	543.3
136	191.25	.86000	677.00	.6820-01	.5550-01	.8180-01	.9140	.2482-02	.3658-02	.4940	3.162	544.3
136	191.25	.87000	678.00	.9420-01	.7630-01	.1133	.9140	.3411-02	.5068-02	.6670	4.237	547.8
136	191.25	.88000	679.00	.1150	.9260-01	.1391	.9140	.4144-02	.6222-02	.7930	5.162	551.9
136	191.25	.89000	680.00	.1493	.1197	.1818	.9140	.5352-02	.8133-02	1.001	6.593	556.3
136	191.25	.90000	681.00	.1533	.1220	.1880	.9140	.5456-02	.8410-02	.9930	6.646	561.3
136	191.25	.91000	682.00	.1023	.8120-01	.1259	.9140	.3633-02	.5633-02	.6540	4.733	563.2

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
136	191.25	.92600	683.30	.9600-01	.7400-01	'222	.9140	.3308-02	.5466-02	.5360	3.852	581.4
136	191.25	.95000	84.00	.6490-01	.5320-01	./710-01	.9140	.2377-02	.3450-02	.4890	3.549	537.6
136	197.00	.33000	685.00	.4430-01	.3620-01	.5280-01	.9137	.1619-02	.2362-02	.3300	2.228	539.3
136	197.00	.34000	686.00	.4540-01	.3710-01	.5420-01	.9137	.1658-02	.2424-02	.3370	2.271	540.2
136	197.00	.35000	687.00	.4670-01	.3810-01	.5580-01	.9137	.1703-02	.2494-02	.3450	2.324	540.9
136	197.00	.36000	688.00	.8110-01	.6590-01	.9740-01	.9137	.2947-02	.4358-02	.5840	3.927	545.2
136	197.00	.37000	689.00	.1198	.9680-01	.1449	.9137	.4329-02	.6479-02	.8370	5.616	550.0
136	197.00	.37500	690.00	.1182	.9500-01	.1438	.9137	.4249-02	.6431-02	.8030	5.396	554.2
136	197.00	.50000	691.00	.1716	.1329	.2176	.9137	.5944-02	.9734-02	.9790	6.479	578.5
136	197.00	.60000	692.00	.1164	.9390-01	.1409	.9137	.4201-02	.6304-02	.8080	5.201	550.9
136	197.00	.70000	693.00	.1867	.1469	.2325	.9137	.6568-02	.1040-01	1.144	7.673	569.1
136	197.00	.80000	694.00	.6190-01	.5070-01	.7380-01	.9137	.2266-02	.3301-02	.4640	2.925	538.7
136	197.00	.87000	695.00	.1080	.8740-01	.1303	.9137	.3910-02	.5829-02	.7620	4.853	548.4
136	197.00	.92600	696.00	.9710-01	.7460-01	.1242	.9137	.3338-02	.5554-02	.5370	3.860	582.5
138	209.80	.15000-01	697.00	.1672	.1372	.1993	.9132	.6138-02	.8915-02	1.272	8.781	536.1
137	209.80	.30000-01	698.00	.4815	.3844	.4611	.9587	.1720-01	.2064-01	3.167	21.42	558.5
137	209.80	.50000-01	699.00	.4980	.3977	.4887	.9537	.1780-01	.2187-01	3.281	20.73	558.3
137	209.80	.70000-01	700.00	.4392	.3418	.4467	.9471	.1530-01	.1999-01	2.562	17.08	575.2
137	209.80	.10000+00	701.00	.3310	.2612	.3538	.9380	.1169-01	.1583-01	2.058	12.99	566.6
137	209.80	.15000	702.00	.1610	.1283	.1840	.9255	.5743-02	.8236-02	1.050	7.464	559.7
137	209.80	.20000	703.00	.7190-01	.5860-01	.8470-01	.9167	.2625-02	.3792-02	.5270	3.521	541.7
137	209.80	.30000	704.00	.33'0-01	.2700-01	.3960-01	.9132	.1211-02	.1773-02	.2460	1.750	539.3
137	209.80	.35000	705.00	.5970-01	.4860-01	.7170-01	.9132	.2174-02	.3210-02	.4340	2.976	543.0
137	209.80	.37500	706.00	.9280-01	.7480-01	.1128	.9132	.3346-02	.5050-02	.6390	4.378	551.6
137	209.80	.50000	707.00	.1021	.8190-01	.1247	.9132	.3666-02	.5583-02	.6890	4.695	554.8
137	209.80	.60000	708.00	.5700-01	.4640-01	.6840-01	.9132	.2078-02	.3060-02	.4170	2.667	541.8
137	209.80	.70000	709.00	.5890-01	.4770-01	.7120-01	.9132	.2137-02	.3187-02	.4180	2.664	547.0
137	209.80	.80000	710.00	.3510-01	.2870-01	.4190-01	.9132	.1286-02	.1876-02	.2630	1.649	537.7
137	209.80	.87000	711.00	.5670-01	.4620-01	.6820-01	.9132	.2066-02	.3053-02	.4120	2.608	543.2
137	209.80	.92600	712.00	.5400-01	.4290-01	.6670-01	.9132	.1920-02	.2986-02	.3470	2.502	562.0
137	217.70	.15000-01	713.00	.1462	.1197	.1749	.9130	.5357-02	.7830-02	1.096	7.581	538.1
137	217.70	.30000-01	714.00	.4432	.3554	.4285	.9570	.1591-01	.1918-01	2.980	20.19	555.2
137	217.70	.50000-01	715.00	.4216	.3387	.4176	.9520	.1516-01	.1869-01	2.860	18.59	553.9
137	217.70	.70000-01	716.00	.5149	.3946	.5300	.9453	.1766-01	.2372-01	2.807	18.81	583.7
137	217.70	.10000+00	717.00	.3192	.2543	.3430	.9364	.1138-01	.1535-01	2.079	13.39	559.9
137	217.70	.15000	718.00	.2149	.1683	.2508	.9242	.7532-02	.1123-01	1.289	9.314	571.5
137	217.70	.20000	719.00	.9390-01	.7630-01	.1115	.9160	.3415-02	.4991-02	.6750	4.554	545.0
137	217.70	.30000	720.00	.3570-01	.2910-01	.4290-01	.9130	.1304-02	.1919-02	.2630	1.885	541.1
137	217.70	.35000	721.00	.6560-01	.5340-01	.7880-01	.9130	.2392-02	.3528-02	.4800	3.335	541.9
137	217.70	.37500	722.00	.8140-01	.6610-01	.9820-01	.9130	.2959-02	.4396-02	.5840	4.054	545.1
137	217. 0	.50000	723.00	.1114	.8990-01	.1353	.9130	.4026-02	.6054-02	.7760	5.355	549.8
137	217.70	.60000	724.00	.4470-01	.3650-01	.5370-01	.9130	.1635-02	.2402-02	.3310	2.120	540.4
137	217.70	.70000	725.00	.5530-01	.4500-01	.6650-01	.9130	.2014-02	.2976-02	.4020	2.561	542.9

DATE 03 JUN 76 AEDC V41A-A4A (1H-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F26)

(HH1(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
137	217.70	.80000	726.00	.4100-01	.3360-01	.4900-01	.9130	.1503-02	.2194-02	.3080	1.947	537.4
137	217.70	.87000	727.00	.6200-01	.5080-01	.7450-01	.9130	.2257-02	.3336-02	.4510	2.888	542.9
137	217.70	.92600	728.00	.1046	.8350-01	.1286	.9130	.3738-02	.5755-02	.6890	4.982	558.3

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = 5.000 BETA = .0000 GRIT = 4.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
159	4.520	5.419	4.990	.0000	.0000	103.8	.3500	664.0	130.5	5.004	2530.	.2260-03
160	4.520	5.430	4.970	.0000	.0000	104.0	.3510	664.0	130.5	5.014	2530.	.2264-03
161	4.520	5.427	4.950	.0000	.0000	103.9	.3500	663.0	130.4	5.008	2529.	.2253-03
187	4.520	5.055	4.960	.0000	.0000	97.10	.3270	665.0	130.7	4.678	2532.	.2101-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
159	.1050-06	.4898-01	.1101-01
160	.1050-06	.4903-01	.1100-01
161	.1050-06	.4900-01	.1100-01
187	.1052-06	.4737-01	.1140-01

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
160	.00000	.30000-02	730.00	.4693	.3006	.3675	.9747	.1474-01	.1802-01	1.361	9.231	571.2
160	.00000	.10300-01	731.00	.1849	.1321	.2449	.9193	.6479-02	.1201-01	.7530	5.187	547.3
160	.00000	.15000-01	732.00	.1956	.1406	.2572	.9193	.6895-02	.1261-01	.8140	5.543	545.5
160	.00000	.25000-01	734.00	.3600	.2172	.2879	.9690	.1065-01	.1412-01	.8900	5.957	580.0
160	.00000	.30000-01	735.00	.6819	.3644	.5238	.9673	.1787-01	.2559-01	1.273	8.521	592.3
160	.00000	.40000-01	737.00	.5849	.3663	.4923	.9658	.1796-01	.2414-01	1.595	10.26	574.8
160	.00000	.45000-01	738.00	.4779	.3036	.4120	.9639	.1488-01	.2020-01	1.354	8.849	572.6
160	.00000	.60000-01	739.00	.4253	.2654	.3855	.9586	.1301-01	.1890-01	1.149	7.611	575.3
160	.00000	.70000-01	740.00	.3870	.2463	.3655	.9552	.1208-01	.1792-01	1.102	7.356	572.3
160	.00000	.80000-01	741.00	.3125	.2025	.3063	.9519	.9930-02	.1502-01	.9360	6.730	569.3
160	.00000	.10000+00	742.00	.2727	.1855	.2842	.9457	.9036-02	.1394-01	.9440	6.266	559.8
160	.00000	.12500	743.00	.1975	.1346	.2207	.9387	.6601-02	.1082-01	.6880	4.971	559.3
160	.00000	.15000	744.00	.1662	.1143	.1953	.9327	.5701-02	.9573-02	.6300	4.363	553.1
160	.00000	.17500	745.00	.1128	.8050-01	.1375	.9276	.3948-02	.6741-02	.4580	3.439	547.6
160	.00000	.20000	746.00	.8050-01	.5820-01	.1010	.9235	.2852-02	.4950-02	.3410	2.446	543.0
160	.00000	.21500	747.00	.6780-01	.4900-01	.8660-01	.9216	.2403-02	.4245-02	.2880	1.999	543.7

(IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RVTF27)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
160	.00000	.23000	748.00	.5830-01	.4210-01	.7570-01	.9201	.2064-02	.3709-02	.2470	1.826	544.0
160	.00000	.24000	749.00	.4610-01	.3330-01	.6040-01	.9193	.1634-02	.2962-02	.1950	1.473	544.2
160	.00000	.25000	750.00	.2820-01	.2050-01	.3680-01	.9193	.1003-02	1805-02	.1210	.9800	543.1
160	.00000	.30000	751.00	.5650-01	.4090-01	.7380-01	.9193	.2006-02	.3621-02	.2410	1.582	543.6
160	.00000	.35000	752.00	.5340-01	.3880-01	.6930-01	.9193	.1904-02	.3397-02	.2320	1.469	541.8
160	.00000	.40000	753.00	.5340-01	.3880-01	.6940-01	.9193	.1903-02	.3400-02	.2310	1.492	542.0
160	.00000	.50000	754.00	.6890-01	.4930-01	.9110-01	.9193	.2415-02	.4466-02	.2810	1.841	547.0
160	.00000	.60000	755.00	.5240-01	.3800-01	.6810-01	.9193	.1865-02	.3337-02	.2260	1.455	542.2
160	.00000	.70000	756.00	.5210-01	.3750-01	.6840-01	.9193	.1840-02	.3354-02	.2180	1.442	545.0
160	.00000	.80000	757.00	.5960-01	.4310-01	.7770-01	.9193	.2115-02	.3810-02	.2540	1.597	543.3
160	.00000	.90000	758.00	.2320-01	.1670-01	.3050-01	.9193	.8205-03	.1494-02	.9700-01	.6310	544.9
160	55.000	.22000	759.00	.4950-01	.3600-01	.6390-01	.9199	.1767-02	.3134-02	.2150	1.606	541.7
160	55.000	.25000	760.00	.2510-01	.1830-01	.3260-01	.9187	.8369-03	.1600-02	.1100	.8650	540.8
160	55.000	.27000	761.00	.3750-01	.2720-01	.4910-01	.9187	.1332-02	.2408-02	.1610	1.159	542.8
160	55.000	.30000	762.00	.4760-01	.3460-01	.6210-01	.9187	.1698-02	.3044-02	.2070	1.250	541.5
160	55.000	.32000	763.00	.6740-01	.4890-01	.8850-01	.9187	.2396-02	.4341-02	.2890	1.711	543.1
160	55.000	.34000	764.00	.8200-01	.5930-01	.1078	.9187	.2909-02	.5284-02	.3490	2.076	543.5
160	55.000	.36000	765.00	.8880-01	.6420-01	.1168	.9187	.3150-02	.5726-02	.3760	2.276	543.6
160	55.000	.38000	766.00	.9090-01	.6550-01	.1201	.9187	.3210-02	.5889-02	.3810	2.317	544.9
160	55.000	.40000	767.00	.1389	.9930-01	.1872	.9187	.4821-02	.9180-02	.5480	3.419	549.9
160	67.500	.23000	768.00	.3430-01	.2500-01	.4470-01	.9189	.1226-02	.2194-02	.1490	1.115	541.6
160	67.500	.25000	769.00	.2110-01	.1540-01	.2760-01	.9185	.7568-03	.1352-02	.9300-01	.7260	540.6
160	67 500	.27000	770.00	.4030-01	.2930-01	.5280-01	.9185	.1436-02	.2590-02	.1740	1.274	542.2
160	67.500	.29000	771.00	.4010-01	.2920-01	.5240-01	.9185	.1432-02	.2569-02	.1750	1.288	541.3
160	67.500	.30000	772.00	.6450-01	.4650-01	.8540-01	.9185	.2279-02	.4187-02	.2710	1.656	544.8
160	67.500	.31000	773.00	.7820-01	.5630-01	.1037	.9185	.2760-02	.5085-02	.3260	1.981	545.3
160	67.500	.32000	774.00	.8480-01	.6110-01	.1121	.9185	.2997-02	.5497-02	.3570	2.146	544.6
160	67.500	.32500	775.00	.8680-01	.6250-01	.1150	.9185	.3062-02	.5637-02	.3630	2.188	545.1
160	67.500	.33000	776.00	.9700-01	.6960-01	.1288	.9185	.3415-02	.6314-02	.4020	2.433	545.8
160	67.500	.33500	777.00	.1138	.8110-01	.1527	.9185	.3976-02	.7489-02	.4590	2.770	548.2
160	67.500	.34000	778.00	.1317	.9330-01	.1779	.9185	.4573-02	.8722-02	.5200	3.138	549.9
160	67.500	.34500	779.00	.1535	.1076	.2102	.9185	.5274-02	.1030-01	.5940	3.532	552.8
160	67.500	.35000	780.00	.1625	.1131	.2242	.9185	.5547-02	.1099-01	.6060	3.669	554.3
160	67.500	.35500	781.00	.1963	.1342	.2772	.9185	.6581-02	.1359-01	.6900	4.182	558.7
160	67.500	.36000	782.00	.2031	.1396	.2846	.9185	.6845-02	.1395-01	.7270	4.407	557.4
160	67.500	.36500	783.00	.1798	.1250	.2484	.9185	.6127-02	.1218-01	.6670	4.037	554.7
160	67.500	.37000	784.00	.1692	.1182	.2324	.9185	.5797-02	.1139-01	.6300	3 888	553.5
160	67.500	.37500	785.00	.1482	.1041	.2024	.9185	.5102-02	.9925-02	.5660	3.490	552.2
160	67.500	.38000	786.00	.1436	.1008	.1961	.9185	.4942-02	.9614-02	.5530	3.391	552.2
160	67.500	.38500	787.00	.1318	.9340-01	.1779	.9185	.4577-02	.8724-02	.5210	3.223	549.8
161	67.500	.60000	789.00	.5180-01	.3730-01	.6840-01	.9185	.1831-02	.3353-02	.2160	1 401	544.4
187	67.500	.60000	790.00	.5700-02	.4700-02	.6000-02	.9131	.2034-03	.3063-03	.4200-01	.2770	540.9
187	67.500	.70000	791.00	.1910-01	.1550-01	.2400-01	.9131	.6959-03	.1030-02	.1395	.9208	543.9

(RV7F27)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
187	67.500	.80000	792.00	.2430-01	.1980-01	.2920-01	.9131	.8879-03	.1309-02	.1780	1.123	542.2
187	67.500	.90000	793.00	.7600-02	.6200-02	.9200-02	.9131	.2772-03	.4133-03	.5400-01	.3510	546.8
187	78.000	.27000	794.00	.2620-01	.2130-01	.3130-01	.9133	.9561-03	.1404-02	.1930	1.381	541.1
187	78.000	.29000	795.00	.5220-01	.4200-01	.6330-01	.9141	.1881-02	.2834-02	.3570	2.194	553.2
161	78.000	.30000	796.00	.1150	.8160-01	.1553	.9184	.3998-02	.7608-02	.4560	2.762	549.2
161	78.000	.31000	797.00	.1391	.9660-01	.1929	.9184	.4732-02	.9453-02	.5130	3.098	554.9
161	78.000	.32000	798.00	.1813	.1227	.2599	.9184	.6013-02	.1274-01	.6170	3.693	560.7
161	78.000	.32500	799.00	.1979	.1326	.2876	.9184	.6498-02	.1409-01	.6530	3.916	562.8
161	78.000	.33000	800.00	.2244	.1496	.3285	.9184	.7329-02	.1609-01	.7290	4.368	563.9
161	78.000	.33500	801.00	.2721	.1789	.4059	.9184	.8766-02	.1989-01	.8490	5.081	566.5
161	78.000	.34000	802.00	.2767	.1818	.4133	.9184	.8909-02	.2025-01	.8620	5.157	566.6
161	78.000	.34500	803.00	.2748	.1816	.4069	.9184	.8897-02	.1994-01	.8700	5.225	565.5
161	78.000	.35000	804.00	.2714	.1827	.3918	.9184	.8952-02	.1920-01	.9080	5.464	561.8
161	78.000	.35500	805.00	.2401	.1644	.3387	.9184	.8056-02	.1660-01	.8480	5.110	558.1
161	78.000	.36000	806.00	.2500	.1727	.3488	.9184	.8463-02	.1709-01	.9080	5.492	556.0
161	78.000	.36500	807.00	.1622	.1128	.2242	.9184	.5528-02	.1099-01	.6030	3.660	554.3
161	78.000	.37000	808.00	.1372	.9650-01	.1871	.9184	.4727-02	.9168-02	.5230	3.223	551.5
161	78.000	.37500	809.00	.1109	.7870-01	.1495	.9184	.3857-02	.7328-02	.4410	2.692	549.0
161	78.000	.38000	810.00	.8600-01	.6150-01	.1151	.9184	.3011-02	.5641-02	.3500	2.149	547.1
161	78.000	.39000	811.00	.8200-01	.5880-01	.1092	.9184	.2880-02	.5352-02	.3380	2.082	546.0
161	78.000	.40000	812.00	.6730-01	.4850-01	.8910-01	.9184	.2375-02	.4368-02	.2820	1.739	544.6
187	90.000	.40000-01	985.00	.4587	.3157	.4313	.9570	.1495-01	.2043-01	1.593	10.31	558.0
187	90.000	.50000-01	986.00	.4195	.2901	.4068	.9535	.1374-01	.1927-01	1.481	9.529	556.8
187	90.000	.60000-01	987.00	.3434	.2306	.3431	.9501	.1093-01	.1625-01	1.105	7.214	563.4
187	90.000	.70000-01	988.00	.3186	.2170	.3282	.9469	.1028-01	.1555-01	1.071	7.151	560.3
187	90.000	.80000-01	989.00	.2729	.1878	.2891	.9438	.8834-02	.1369-01	.9470	6.674	558.0
187	90.000	.10000+00	990.00	.2298	.1627	.2547	.9382	.7707-02	.1206-01	.8770	5.707	550.8
187	90.000	.15000	991.00	.1291	.9290-01	.1573	.9270	.4399-02	.7453-02	.5210	3.826	546.1
161	90.000	.20000	813.00	.3640-01	.2660-01	.4750-01	.9184	.1304-02	.2326-02	.1610	1.172	540.1
161	90.000	.24000	814.00	.3040-01	.2220-01	.3970-01	.9183	.1089-02	.1945-02	.1340	1.089	540.1
161	90.000	.27000	816.00	.2500-01	.1820-01	.3270-01	.9183	.8910-03	.1601-02	.1090	.7760	541.1
161	90.000	.29000	817.00	.1270	.8820-01	.1761	.9183	.4320-02	.8628-02	.4690	2.902	554.8
161	90.000	.30000	818.00	.2180	.1426	.3278	.9183	.6988-02	.1606-01	.6700	4.054	567.4
161	90.000	.31000	819.00	.2332	.1546	.3442	.9183	.7576-02	.1687-01	.7450	4.477	564.9
161	90.000	.32000	820.00	.2488	.1646	.3681	.9183	.8066-02	.1803-01	.7910	4.736	565.3
161	90.000	.32500	821.00	.2552	.1685	.3790	.9183	.8255-02	.1857-01	.8050	4.809	565.7
161	90.000	.33000	822.00	.2994	.1945	.4551	.9183	.9531-02	.2230-01	.9020	5.394	568.6
161	90.000	.33500	823.00	.3606	.2255	.5813	.9183	.1105-01	.2848-01	.9780	5.848	574.8
161	90.000	.34000	824.00	.3945	.2486	.6280	.9183	.1218-01	.3077-01	1.093	6.500	573.6
161	90.000	.34500	825.00	.4668	.2850	.7840	.9183	.1396-01	.3842-01	1.189	7.075	578.2
161	90.000	.35000	826.00	.5696	.3074	1.241	.9183	.1506-01	.6078-01	1.085	6.415	591.3
161	90.000	.36000	828.00	.3718	.2304	.6088	.9183	.1129-01	.2983-01	.9840	5.846	576.1
161	90.000	.36500	829.00	.2753	.1877	.3910	.9183	.9196-02	.1916-01	.9580	5.757	559.1

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F27)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
161	90.000	.37000	830.00	.1345	.9590-01	.1805	.9183	.4699-02	.8846-02	.5430	3.292	547.7
161	90.000	.37500	831.00	.9150-01	.6630-01	.1206	.9183	.3250-02	.5909-02	.3910	2.390	542.9
161	90.000	.38000	832.00	.6330-01	.4610-01	.8290-01	.9183	.2260-02	.4064-02	.2760	1.686	541.2
161	90.000	.39000	833.00	.5310-01	.3860-01	.6960-01	.9183	.1891-02	.3409-02	.2300	1.422	541.6
161	90.000	.40000	834.00	.6460-01	.4680-01	.8510-01	.9183	.2295-02	.4171-02	.2760	1.711	542.8
161	90.000	.50000	835.00	.4240-01	.3060-01	.5610-01	.9183	.1502-02	.2750-02	.1790	1.135	543.9
161	90.000	.60000	836.00	.4090-01	.2990-01	.5340-01	.9183	.1465-02	.2614-02	.1800	1.206	540.1
161	90.000	.70000	837.00	.7430-01	.5340-01	.9870-01	.9183	.2616-02	.4838-02	.3090	2.174	545.3
161	90.000	.80000	838.00	.9110-01	.6600-01	.1200	.9183	.3234-02	.5878-02	.3900	2.426	542.8
161	90.000	.90000	839.00	.1907	.1333	.2623	.9183	.6530-02	.1285-01	.7190	4.584	553.1
161	112.50	.23000	840.00	.3640-01	.2660-01	.4740-01	.9183	.1305-02	.2322-02	.1610	1.306	539.6
161	112.50	.30000	843.00	.4920-01	.3580-01	.6460-01	.9183	.1754-02	.3164-02	.2130	1.272	541.7
161	112.50	.33000	844.00	.1082	.7690-01	.1458	.9183	.3769-02	.7143-02	.4320	2.604	548.6
161	112.50	.35000	845.00	.1475	.1042	.2001	.9183	.5108-02	.9803-02	.5780	3.536	550.1
161	112.50	.37000	846.00	.6860-01	.4950-01	.9080-01	.9183	.2423-02	.4449-02	.2880	1.780	544.3
161	112.50	.40000	847.00	.2980-01	.2190-01	.3870-01	.9183	.1073-02	.1896-02	.1340	.8380	538.4
161	112.50	.45000	848.00	.1590-01	.1170-01	.2050-01	.9183	.5732-03	.1007-02	.7200-01	.4550	537.5
161	112.50	.50000	849.00	.1500-01	.1100-01	.1960-01	.9183	.5395-03	.9581-03	.6700-01	.4320	539.2
161	112.50	.55000	850.00	.1000-01	.7300-02	.1290-01	.9183	.3585-03	.6337-03	.4500-01	.3000	538.5
161	112.50	.60000	851.00	.2380-01	.1750-01	.3080-01	.9183	.8559-03	.1508-02	.1070	.7220	537.9
161	112.50	.65000	852.00	.7610-01	.5530-01	.9990-01	.9183	.2711-02	.4896-02	.3290	2.246	541.8
161	112.50	.70000	853.00	.8430-01	.6100-01	.1114	.9183	.2987-02	.5460-02	.3570	2.512	543.6
161	112.50	.75000	854.00	.5850-01	.4260-01	.7650-01	.9183	.2087-02	.3750-02	.2550	1.659	541.1
161	112.50	.80000	855.00	.4900-01	.3580-01	.6390-01	.9183	.1755-02	.3132-02	.2160	1.412	540.0
161	112.50	.90000	856.00	.5250-01	.3760-01	.7010-01	.9183	.1845-02	.3433-02	.2160	1.402	546.2
161	125.40	.84000	857.00	.5750-01	.4170-01	.7570-01	.9183	.2043-02	.3710-02	.2470	1.627	542.6
161	125.40	.85000	858.00	.6770-01	.4900-01	.8930-01	.9183	.2403-02	.4378-02	.2890	1.797	543.2
161	125.40	.86000	859.00	.5380-01	.3900-01	.7090-01	.9183	.1911-02	.3474-02	.2300	1.445	542.9
161	125.40	.87000	860.00	.4990-01	.3620-01	.6580-01	.9163	.1771-02	.3223-02	.2130	1.342	543.0
161	125.40	.88000	861.00	.5840-01	.4210-01	.7730-01	.9183	.2063-02	.3785-02	.2460	1.548	544.2
161	125.40	.89000	862.00	.7190-01	.5150-01	.9610-01	.9183	.2523-02	.4708-02	.2950	1.862	546.5
161	125.40	.90000	863.00	.7550-01	.5410-01	.1008	.9183	.2650-02	.4939-02	.3100	1.971	546.3
161	125.40	.91000	864.00	.5470-01	.3930-01	.7300-01	.9183	.1923-02	.3575-02	.2260	1.641	546.0
161	125.40	.92600	865.00	.1670	.1163	.2309	.9183	.5699-02	.1131-01	.6220	4.495	554.1
161	129.30	.80000	866.00	.6470-01	.4710-01	.8470-01	.9183	.2310-02	.4152-02	.2820	1.778	541.2
161	129.30	.81000	867.00	.4600-01	.3350-01	.6020-01	.9183	.1640-02	.2952-02	.2000	1.254	541.3
161	129.30	.82000	868.00	.3910-01	.2850-01	.5110-01	.9183	.1397-02	.2506-02	.1710	1.072	540.9
161	129.30	.83000	869.00	.4340-01	.3150-01	.5710-01	.9183	.1541-02	.2798-02	.1860	1.168	542.6
161	135.00	.40000-01	870.00	.3650	.2518	.3606	.9514	.1234-01	.1767-01	1.319	8.441	556.4
161	135.00	.50000-01	871.00	.3993	.2763	.4068	.9479	.1354-01	.1993-01	1.457	9.270	555.7
161	135.00	.60000-01	872.00	.3106	.2095	.3273	.9147	.1027-01	.1604-01	1.046	6.897	561.4
161	135.00	.70000-01	873.00	.2751	.1881	.2982	.9416	.9217-02	.1461-01	.9660	6.537	558.4
161	135.00	.10000+00	875.00	.1959	.1387	.2266	.9336	.6794-02	.1110-01	.7720	5.056	549.7

(RV7F27)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
161	135.00	.15000	876.00	.1084	.7760-01	.1368	.9238	.3800-02	.6704-02	.4430	3.245	546.6
161	135.00	.20000	877.00	.5050-01	.3690-01	.6550-01	.9188	.1809-02	.3207-02	.2230	1.512	539.8
161	135.00	.35000	878.00	.4270-01	.3130-01	.5560-01	.9183	.1535-02	.2723-02	.1910	1.189	539.1
161	135.00	.40000	879.00	.4760-01	.3470-01	.6220-01	.9183	.1700-02	.3047-02	.2080	1.325	540.7
161	135.00	.50000	880.00	.4130-01	.3000-01	.5420-01	.9183	.1469-02	.2654-02	.1780	1.227	541.9
161	135.00	.55000	881.00	.5330-01	.3860-01	.7030-01	.9183	.1890-02	.3443-02	.2270	1.514	543.2
161	135.00	.60000	882.00	.5480-01	.3990-01	.7190-01	.9183	.1955-02	.3524-02	.2380	1.603	541.6
161	135.00	.65000	883.00	.5720-01	.4150-01	.7520-01	.9183	.2035-02	.3687-02	.2460	1.683	542.4
161	135.00	.70000	884.00	.4190-01	.3050-01	.5490-01	.9183	.1494-02	.2691-02	.1820	1.297	541.5
161	135.00	.75000	885.00	.5380-01	.3890-01	.7110-01	.9183	.1904-02	.3483-02	.2280	1.437	543.7
161	135.00	.80000	886.00	.2990-01	.2180-01	.3920-01	.9183	.1067-02	.1921-02	.1300	.8200	541.4
187	135.00	.84000	887.00	.8090-01	.6500-01	.9760-01	.9150	.2908-02	.4368-02	.5480	3.434	552.3
187	135.00	.85000	888.00	.5530-01	.4050-01	.7210-01	.9183	.1919-02	.3415-02	.2380	1.512	540.6
187	135.00	.86000	889.00	.4040-01	.2970-01	.5220-01	.9183	.1407-02	.2475-02	.1770	1.124	538.7
187	135.00	.87000	890.00	.5300-01	.3900-01	.6870-01	.9183	.1848-02	.3252-02	.2320	1.484	538.8
187	135.00	.89000	892.00	.7600-01	.5540-01	.9940-01	.9183	.2626-02	.4710-02	.3220	2.101	541.8
187	135.00	.90000	893.00	.7170-01	.5220-01	.9410-01	.9183	.2470-02	.4460-02	.3010	1.983	542.8
187	135.00	.91000	894.00	.4190-01	.3050-01	.5480-01	.9183	.1447-02	.2598-02	.1770	1.296	542.0
187	135.00	.92600	895.00	.6780-01	.4810-01	.9150-01	.9183	.2279-02	.4334-02	.2610	1.894	550.0
187	135.00	.95000	896.00	.4850-01	.3540-01	6320-01	.9183	.1678-02	.2994-02	.2070	1.501	541.0
187	142.30	.42000	897.00	.1145	.8260-01	.1516	.9183	.3915-02	.7181-02	.4670	3.007	545.2
187	142.30	.43500	898.00	.1620	.1160	.2165	.9183	.5595-02	.1026-01	.6430	4.015	547.6
187	142.30	.45000	899.00	.1428	.1028	.1896	.9183	.4868-02	.8982-02	.5770	3.777	546.0
187	142.30	.50000	900.00	.1084	.7830-01	.1433	.9183	.3708-02	.6789-02	.4440	2.958	544.9
187	142.30	.60000	901.00	.5630-01	.4130-01	.7320-01	.9183	.1955-02	.3469-02	.2430	1.621	540.1
187	142.30	.70000	902.00	.5260-01	.3860-01	.6820-01	.9183	.1829-02	.3230-02	.2290	1.569	539.3
187	142.30	.80000	903.00	.6110-01	.4500-01	.7890-01	.9183	.2133-02	.3736-02	.2700	1.724	538.0
187	142.30	.87000	904.00	.8390-01	.6110-01	.1099	.9183	.2893-02	.5207-02	.3530	2.239	542.4
187	154.98	.42000	905.00	.1860	.1315	.2521	.9183	.6231-02	.1194-01	.7070	4.552	551.0
187	154.98	.43500	906.00	.2220	.1548	.3064	.9183	.7333-02	.1451-01	.8050	5.199	554.8
187	154.98	.45000	907.00	.1555	.1117	.2069	.9183	.5293-02	.9801-02	.6250	4.078	546.5
187	154.98	.50000	908.00	.1055	.7550-01	.1411	.9183	.3579-02	.6682-02	.4180	2.992	547.6
187	154.98	.93500	913.00	.2180	.1500	.3058	.9183	.7105-02	.1449-01	.7570	5.473	558.0
187	154.98	.94500	914.00	.1360	.9580-01	.1853	.9183	.4537-02	.8778-02	.5100	3.660	552.2
187	157.50	.80000-01	919.00	.2225	.1581	.2482	.9373	.7488-02	.1176-01	.8590	5.852	549.8
187	157.50	.20000	922.00	.4730-01	.3500-01	.6070-01	.9186	.1659-02	.2876-02	.2120	1.421	536.6
187	157.50	.42000	923.00	.1451	.1041	.1934	.9183	.4932-02	.9161-02	.5800	3.784	546.9
187	157.50	.43500	924.00	.1855	.1315	.2507	.9183	.6231-02	.1188-01	.7120	4.649	550.3
187	157.50	.45000	925.00	.1707	.1216	.2295	.9183	.5759-02	.1087-01	.6650	4.383	549.1
187	157.50	.85000	926.00	.4970-01	.3640-01	.6470-01	.9183	.1723-02	.3065-02	.2140	1.386	540.6
187	157.50	.86000	927.00	.1026	.7500-01	.1339	.9183	.3551-02	.6345-02	.4380	2.848	541.2
187	157.50	.87000	928.00	.7950-01	.5780-01	.1042	.9183	.2737-02	.4937-02	.3340	2.175	542.7
187	157.50	.88000	929.00	.9700-01	.7010-01	.1282	.9183	.3322-02	.6072-02	.3980	2.609	544.6

(IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F27)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
187	157.50	.89000	930.00	.7670-01	.5530-01	.1018	.9183	.2618-02	.4822-02	.3110	2.048	545.8
187	157.50	.90000	931.00	.9110-01	.6530-01	.1216	.9183	.3095-02	.5758-02	.3630	2.449	547.1
187	157.50	.91000	932.00	.6140-01	.4400-01	.8190-01	.9183	.2085-02	.3878-02	.2450	1.791	547.1
187	157.50	.92600	933.00	.6120-01	.4280-01	.8410-01	.9183	.2065-02	.3984-02	.2240	1.625	554.1
187	163.12	.41500	934.00	.1171	.8450-01	.1549	.9183	.4004-02	.7337-02	.4780	3.106	545.0
187	163.12	.42000	935.00	.1389	.9960-01	.1851	.9183	.4720-02	.8768-02	.5550	3.632	546.9
187	163.12	.43000	937.00	.1923	.1347	.2640	.9183	.6379-02	.1251-01	.7070	4.622	553.7
187	163.12	.44000	938.00	.2236	.1556	.3093	.9183	.7371-02	.1465-01	.8050	5.247	555.3
187	163.12	.44500	939.00	.2000	.1396	.2756	.9183	.6614-02	.1306-01	.7280	4.813	554.5
187	163.12	.45000	940.00	.1844	.1295	.2524	.9183	.6133-02	.1196-01	.6840	4.525	553.1
187	163.12	.50000	941.00	.8880-01	.6390-01	.1181	.9183	.3027-02	.5592-02	.3580	2.431	546.2
187	163.12	.60000	942.00	.1001	.7280-01	.1312	.9183	.3450-02	.6217-02	.4210	2.720	542.5
187	163.12	.70000	943.00	.7090-01	.5200-01	.9220-01	.9183	.2462-02	.4367-02	.3060	2.111	540.1
187	163.12	.80000	944.00	.5560-01	.4080-01	.7200-01	.9183	.1935-02	.3411-02	.2430	1.590	539.1
187	168.00	.35000	945.00	.4620-01	.3410-01	.5950-01	.9183	.1616-02	.2817-02	.2060	1.310	537.2
187	168.00	.36000	946.00	.4570-01	.3370-01	.5880-01	.9183	.1598-02	.2787-02	.2030	1.299	537.3
187	168.00	.37000	947.00	.4570-01	.3380-01	.5900-01	.9183	.1599-02	.2793-02	.2030	1.302	537.5
187	168.00	.37500	948.00	.5090-01	.3750-01	.6580-01	.9183	.1775-02	.3117-02	.2240	1.434	538.4
187	168.00	.38500	950.00	.4460-01	.3290-01	.5750-01	.9183	.1556-02	.2725-02	.1970	1.276	538.0
187	168.00	.39000	951.00	.5880-01	.43 0-01	.7640-01	.9183	.2042-02	.3617-02	.2650	1.658	539.8
187	168.00	.39500	952.00	.6210-01	.4540-01	.8110-01	.9183	.2149-02	.3743-02	.2650	1.696	541.4
187	168.00	.40000	953.00	.7070-01	.5140-01	.9280-01	.9183	.2436-02	.4396-02	.2970	1.934	542.7
187	168.00	.40500	954.00	.8200-01	.5930-01	.1082	.9183	.2810-02	.5125-02	.3380	2.206	544.3
187	168.00	.41000	955.00	.9960-01	.7150-01	.1328	.9183	.3387-02	.6289-02	.3990	2.600	546.9
187	168.00	.41500	956.00	.1181	.8400-01	.1531	.9183	.3978-02	.7538-02	.4570	2.989	549.6
187	168.00	.42000	957.00	.1440	.1016	.1959	.9183	.4814-02	.9279-02	.5430	3.556	551.7
187	168.00	.42500	958.00	.1560	.1109	.2103	.9183	.5252-02	.9964-02	.6030	3.951	549.7
187	168.00	.43000	959.00	.2133	.1439	.3072	.9183	.6819-02	.1455-01	.6970	4.522	562.4
187	168.00	.44000	960.00	.2599	.1782	.3663	.9183	.8442-02	.1735-01	.8920	5.822	558.8
187	168.00	.44500	961.00	.2695	.1867	.3747	.9183	.8846-02	.1775-01	.9570	6.253	556.3
187	168.00	.45000	962.00	.2296	.1608	.3150	.9183	.7615-02	.1492-01	.8440	5.555	553.7
187	168.00	.45500	963.00	.2007	.1410	.2743	.9183	.6681-02	.1299-01	.7470	4.915	552.8
187	168.00	.46000	964.00	.1998	.1396	.2750	.9183	.6612-02	.1303-01	.7290	4.823	554.3
187	168.00	.47000	965.00	.1424	.1003	.1941	.9183	.4751-02	.9196-02	.5340	3.545	552.2
187	168.00	.48000	966.00	.1118	.7950-01	.1505	.9183	.3766-02	.7130-02	.4330	2.909	549.5
187	168.00	.49000	967.00	.9100-01	.6590-01	.1199	.9183	.3121-02	.5679-02	.3760	2.533	544.0
187	168.00	.85000	968.00	.3720-01	.2710-01	.4870-01	.9183	.1286-02	.2306-02	.1580	1.026	541.8
187	168.00	.86000	969.00	.9450-01	.6840-01	.1244	.9183	.3242-02	.5895-02	.3910	2.548	543.9
187	168.00	.87000	970.00	.1242	.8960-01	.1646	.9183	.4244-02	.7796-02	.5060	3.302	545.4
187	168.00	.88000	971.00	.1226	.8830-01	.1628	.9183	.4181-02	.7712-02	.4960	3.245	546.0
187	168.00	.89000	972.00	.9500-01	.6820-01	.1266	.9183	.3230-02	.5937-02	.3800	2.524	546.9
187	168.00	.90000	973.00	.1204	.8620-01	.1609	.9183	.4083-02	.7622-02	.4770	3.246	547.6
187	168.00	.91000	974.00	.6830-01	.4900-01	.9100-01	.9183	.2323-02	.4311-02	.2740	1.995	546.8

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F27)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
187	168.00	.92600	975.00	.4690-01	.3220-01	.6600-01	.9183	.1525-02	.3127-02	.1620	1.164	558.6
187	168.00	.95000	976.00	.4130-01	.3030-01	.5360-01	.9183	.1435-02	.2541-02	.1790	1.294	539.8
187	180.00	.20000-01	982.00	.9130-01	.6690-01	.8860-01	.9542	.3168-02	.4195-02	.3940	2.748	540.2
187	180.00	.25000-01	983.00	.1413	.1028	.1390	.9522	.4870-02	.6583-02	.5940	4.114	542.5
187	180.00	.30000-01	984.00	.3375	.2379	.3358	.9506	.1127-01	.1591-01	1.269	8.691	551.9
159	180.00	.40000-01	600.00	.3492	.2427	.3520	.9491	.1189-01	.1724-01	1.293	8.283	554.7
159	180.00	.50000-01	601.00	.3645	.2552	.3783	.9457	.1250-01	.1853-01	1.383	8.893	552.9
159	180.00	.60000-01	602.00	.3039	.2074	.3266	.9425	.1016-01	.1600-01	1.061	7.023	559.1
159	180.00	.70000-01	603.00	.2393	.1658	.2637	.9396	.8122-02	.1291-01	.8780	5.965	555.4
159	180.00	.80000-01	604.00	.2303	.1609	.2599	.9368	.7880-02	.1273-01	.8670	5.624	553.5
159	180.00	.10000+00	605.00	.1552	.1102	.1823	.9318	.5398-02	.8931-02	.6180	4.427	549.1
159	180.00	.15000	606.00	.7920-01	.5710-01	.1006	.9227	.2796-02	.4927-02	.3320	2.415	544.9
159	180.00	.20000	607.00	.4050-01	.2970-01	.5270-01	.9185	.1453-02	.2582-02	.1800	1.177	539.8
159	180.00	.21000	608.00	.3090-01	.2260-01	.4020-01	.9183	.1106-02	.1968-02	.1370	.9490	539.7
159	180.00	.22000	609.00	.2370-01	.1730-01	.3090-01	.9183	.8492-03	.1511-02	.1050	.7850	539.8
159	180.00	.30000	610.00	.8740-01	.6330-01	.1153	.9103	.3100-02	.5646-02	.3730	2.556	543.3
159	180.00	.35000	611.00	.4070-01	.2960-01	.5330-01	.9183	.1452-02	.2609-02	.1780	1.186	541.3
159	180.00	.36000	612.00	.3990-01	.2910-01	.5230-01	.9183	.1425-02	.2563-02	.1740	1.172	541.5
159	180.00	.37000	613.00	.4140-01	.3010-01	.5440-01	.9183	.1473-02	.2663-02	.1790	1.204	542.2
159	180.00	.37500	614.00	.4410-01	.3200-01	.5810-01	.9183	.1566-02	.2845-02	.1890	1.271	543.0
159	180.00	.38000	615.00	.4580-01	.3310-01	.6070-01	.9183	.1621-02	.2972-02	.1930	1.300	544.3
159	180.00	.38500	616.00	.4490-01	.3240-01	.5950-01	.9183	.1586-02	.2915-02	.1890	1.270	544.6
159	180.00	.39000	617.00	.5620-01	.4040-01	.7480-01	.9183	.1978-02	.3664-02	.2330	1.552	545.8
159	180.00	.39500	618.00	.6200-01	.4440-01	.8290-01	.9183	.2173-02	.4058-02	.2530	1.709	546.9
159	180.00	.40000	619.00	.6960-01	.4950-01	.9370-01	.9183	.2422-02	.4590-02	.2780	1.861	548.8
159	180.00	.40500	620.00	.8530-01	.6030-01	.1158	.9183	.2952-02	.5673-02	.3340	2.239	550.5
159	180.00	.41000	621.00	.1070	.7480-01	.1471	.9183	.3662-02	.7206-02	.4040	2.704	553.3
159	180.00	.41500	622.00	.1319	.9100-01	.1844	.9183	.4458-02	.9034-02	.4770	3.181	556.5
159	180.00	.42500	624.00	.1796	.1198	.2629	.9183	.5867-02	.1287-01	.5840	3.883	563.9
159	180.00	.43000	625.00	.2340	.1529	.3526	.9183	.7487-02	.1727-01	.7170	4.765	567.8
159	180.00	.44000	626.00	.3240	.2061	.5084	.9183	.1009-01	.2490-01	.9200	6.106	572.4
159	180.00	.44500	627.00	.3590	.2298	.5578	.9183	.1126-01	.2732-01	1.038	6.951	571.3
159	180.00	.45000	628.00	.2975	.1970	.4397	.9183	.9651-02	.2154-01	.9480	6.371	565.3
159	180.00	.45500	629.00	.2128	.1462	.2990	.9183	.7163-02	.1464-01	.7600	5.208	557.4
159	180.00	.46000	630.00	.1492	.1051	.2033	.9183	.5149-02	.9958-02	.5780	3.876	551.3
159	180.00	.47000	631 00	.6730-01	.4830-01	.8940-01	.9183	.2368-02	.4381-02	.2790	1.879	545.5
159	180.00	.48000	632.00	.6280-01	.4510-01	.8370-01	.9183	.2209-02	.4100-02	.2600	1.756	546.0
159	180.00	.49000	633.00	.4580-01	.3280-01	.6110-01	.9183	.1607-02	.2991-02	.1880	1.286	546.3
159	180.00	.50000	634.00	.5750-01	.4060-01	.7800-01	.9183	.1990-02	.3819-02	.2250	1.573	550.3
159	180.00	.55000	635.00	.1144	.8040-01	.1563	.9183	.3939-02	.7656-02	.4400	2.914	551.9
159	180.00	.60000	636.00	.1118	.7950-01	.1507	.9183	.3892-02	.7382-02	.4460	2.875	548.9
159	180.00	.65000	637.00	.1177	.8420-01	.1574	.9183	.4124-02	.7711-02	.4810	3.107	547.0
159	180.00	.70000	638.00	.7760-01	.5570-01	.1033	.9183	.2729-02	.5061-02	.3210	2.199	545.9

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F27)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
159	180.00	.75000	639.00	.4040-01	.2940-01	.5310-01	.9183	.1438-02	.2599-02	.1750	1.128	542.2
159	180.00	.80000	640.00	.5340-01	.3870-01	.7020-01	.9183	.1896-02	.3439-02	.2290	1.439	542.7
159	180.00	.85000	641.00	.5300-01	.3810-01	.7070-01	.9183	.1864-02	.3462-02	.2190	1.384	546.1
159	180.00	.86000	642.00	.6720-01	.4790-01	.9020-01	.9183	.2346-02	.4416-02	.2710	1.739	547.9
159	180.00	.87000	643.00	.1446	.1021	.1963	.9183	.5002-02	.9614-02	.5650	3.638	550.5
159	180.00	.89000	645.00	.8950-01	.6300-01	.1223	.9183	.3084-02	.5990-02	.3450	2.262	551.8
159	180.00	.90000	646.00	.9610-0.	.6770-01	.1309	.9183	.3316-02	.6411-02	.3720	2.498	551.2
159	180.00	.92600	648.00	.4470-01	.2950-01	.6640-01	.9183	.1443-02	.3251-02	.1410	1.015	566.1
159	180.00	.95000	649.00	.2950-01	.2120-01	.3910-01	.9183	.1040-02	.1916-02	.1230	.8920	544.9
159	191.25	.35000	650.00	.3460-01	.2510-01	.4550-01	.9183	.1229-02	.2230-02	.1480	1.000	542.8
159	191.25	.36000	651.00	.4770-01	.3460-01	.6260-01	.9183	.1696-02	.3067-02	.2060	1.390	542.3
159	191.25	.37000	652.00	.4910-01	.3560-01	.6460-01	.9183	.1742-02	.3166-02	.2100	1.414	543.0
159	191.25	.37500	653.00	.5100-01	.3690-01	.6730-01	.9183	.1808-02	.3294-02	.2170	1.468	543.3
159	191.25	.38000	654.00	.5320-01	.3850-01	.7020-01	.9183	.1883-02	.3438-02	.2260	1.524	543.6
159	191.25	.38500	655.00	.5290-01	.3820-01	.7000-01	.9183	.1870-02	.3429-02	.2230	1.506	544.3
159	191.25	.39000	656.00	.5660-01	.4070-01	.7520-01	.9183	.1994-02	.3682-02	.2360	1.590	545.3
159	191.25	.39500	657.00	.7570-01	.5440-01	.1006	.9183	.2663-02	.4930-02	.3140	2.118	545.6
159	191.25	.40000	658.00	.8290-01	.5920-01	.1110	.9183	.2901-02	.5439-02	.3370	2.278	547.3
159	191.25	.40500	659.00	.9020-01	.6400-01	.1218	.9183	.3134-02	.5967-02	.3580	2.417	549.3
159	191.25	.41000	660.00	.1021	.7190-01	.1391	.9183	.3522-02	.6813-02	.3950	2.659	551.3
159	191.25	.41500	661.00	.1177	.8240-01	.1615	.9183	.4037-02	.7911-02	.4470	2.994	552.8
159	191.25	.42000	662.00	.1548	.1060	.2188	.9183	.5189-02	.1071-01	.5460	3.656	558.4
159	191.25	.42500	663.00	.1913	.1287	.2765	.9183	.6304-02	.1354-01	.6390	4.290	562.1
159	191.25	.43000	664.00	.2566	.1646	.3977	.9183	.8062-02	.1948-01	.7460	5.027	571.0
159	191.25	.44000	665.00	.2988	.1941	.4542	.9183	.9508-02	.2225-01	.9000	6.039	568.9
159	191.25	.45000	666.00	.2380	.1622	.3384	.9183	.7943-02	.1658-01	.8270	5.573	559.4
159	191.25	.45500	667.00	.2071	.1418	.2923	.9183	.6947-02	.1432-01	.7310	4.933	558.2
159	191.25	.46000	668.00	.1918	.1312	.2712	.9183	.6428-02	.1329-01	.6750	4.566	558.5
159	191.25	.47000	669.00	.1490	.1032	.2073	.9183	.5054-02	.1016-01	.5450	3.705	555.6
159	191.25	.48000	670.00	.1482	.1036	.2038	.9183	.5075-02	.9981-02	.5600	3.807	553.2
159	191.25	.49000	671.00	.1264	.8840-01	.1738	.9183	.4328-02	.8513-02	.4770	3.237	553.2
159	191.25	.50000	672.00	.1196	.8360-01	.1658	.9183	.4070-02	.8121-02	.20	3.062	554.9
159	191.25	.60000	673.00	.1079	.7750-01	.1436	.9183	.3797-02	.7033-02	. .70	2.869	[illegible]
159	191.25	.70000	674.00	.1518	.1063	.2085	.9183	.5204-02	.1021-01	.5750	3.901	553.0
159	191.25	.85000	676.00	.5700-01	.4100-01	.7590-01	.9183	.2008-02	.3710-02	.2370	1.501	545.4
159	191.25	.86000	677.00	.5610-01	.4020-01	.7500-01	.9183	.1967-02	.3673-02	.2300	1.468	546.8
159	191.25	.87000	678.00	.6250-01	.4440-01	.8420-01	.9183	.2175-02	.4122-02	.2500	1.609	548.7
159	191.25	.88000	679.00	.8830-01	.6240-01	.1198	.9183	.3055-02	.5869-02	.3450	2.250	550.5
159	191.25	.89000	680.00	.9120-01	.6400-01	.1249	.9183	.3135-02	.6117-02	.3490	2.302	552.3
159	191.25	.90000	681.00	.8980-01	.6270-01	.1236	.9183	.3070-02	.6056-02	.3370	2.267	553.6
159	191.25	.91000	682.00	.4160-01	.2910-01	.5710-01	.9183	.1425-02	.2796-02	.1580	1.146	552.9
159	191.25	.92600	683.00	.3700-01	.2510-01	.5320-01	.9183	.1227-02	.2605-02	.1260	.9140	561.0
159	191.25	.95000	684.00	.1740-01	.1250-01	.2300-01	.9183	.6137-03	.1125-02	.7300-01	.5290	544.3

(RV7F27)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
159	197.00	.33000	685.00	.4510-01	.3280-01	.5920-01	.9183	.1607-02	.2899-02	.1960	1.318	541.8
159	197.00	.34000	686.00	.4510-01	.3280-01	.5930-01	.9183	.1605-02	.2903-02	.1950	1.311	542.3
159	197.00	.35000	687.00	.4790-01	.3480-01	.6300-01	.9183	.1706-02	.3086-02	.2070	1.393	542.3
159	197.00	.36000	689.00	.5350-01	.3880-01	.7050-01	.9183	.1901-02	.3451-02	.2290	1.545	542.8
159	197.00	.37000	689.00	.5220-01	.3780-01	.6880-01	.9183	.1851-02	.3370-02	.2230	1.500	543.2
159	197.00	.37500	690.00	.4600-01	.3320-01	.6110-01	.9183	.1624-02	.2991-02	.1930	1.300	544.9
159	197.00	.50000	691.00	.2131	.1378	.3260	.9183	.6749-02	.1597-01	.6340	4.210	569.6
159	197.00	.60000	692.00	.8900-01	.6360-01	.1192	.9183	.3118-02	.5837-02	.3630	2.339	547.2
159	197.00	.70000	693.00	.2904	.1927	.4279	.9183	.9441-02	.2096-01	.9310	6.259	564.9
159	197.00	.80000	694.00	.4780-01	.3470-01	.6280-01	.9183	.1698-02	.3076-02	.2050	1.294	542.5
159	197.00	.87000	695.00	.3970-01	.2820-01	.5350-01	.9183	.1382-02	.2620-02	.1590	1.010	548.8
159	197.00	.92600	696.00	.5770-01	.3900-01	.8260-01	.9183	.1913-02	.4045-02	.1970	1.429	560.7
187	209.80	.15000-01	697.00	.1411	.1149	.1692	.9136	.5146-02	.7575-02	1.031	7.093	543.2
160	209.80	.30000-01	698.00	.4567	.3129	.4501	.9516	.1534-01	.2207-01	1.617	10.94	558.2
160	209.80	.50000-01	699.00	.3944	.2756	.4059	.9467	.1351-01	.1990-01	1.487	9.422	553.5
160	209.80	.70000-01	700.00	.3424	.2285	.3782	.9405	.1120-01	.1855-01	1.118	7.493	563.8
160	209.80	.10000+00	701.00	.1757	.1246	.2050	.9326	.6111-02	.1005-01	.6970	4.440	549.5
160	209.80	.15000	702.00	.7200-01	.5170-01	.9110-01	.9232	.2537-02	.4465-02	.2990	2.143	545.5
160	209.80	.20000	703.00	.3890-01	.2850-01	.5030-01	.9186	.1401-02	.2464-02	.1750	1.173	538.4
160	209.80	.30000	704.00	.4390-01	.3180-01	.5780-01	.9183	.1561-02	.2832-02	.1880	1.338	542.8
160	209.80	.35000	705.00	.6310-01	.4560-01	.8340-01	.9183	.2235-02	.4087-02	.2670	1.833	543.9
160	209.80	.37500	706.00	.6720-01	.4830-01	.8950-01	.9183	.2369-02	.4386-02	.2790	1.919	545.7
160	209.80	.50000	707.00	.1666	.1140	.2356	.9183	.5587-02	.1155-01	.5870	3.992	558.6
160	209.80	.60000	708.00	.5530-01	.4010-01	.7280-01	.9183	.1964-02	.3569-02	.2370	1.512	543.0
160	209.80	.70000	709.00	.1260	.8920-01	.1708	.9183	.4373-02	.8372-02	.4960	3.158	550.1
160	209.80	.80000	710.00	.4540-01	.3320-01	.5920-01	.9183	.1626-02	.2903-02	.2000	1.252	540.4
160	209.80	.87000	711.00	.4400-01	.3160-01	.5850-01	.9183	.1549-02	.2868-02	.1830	1.154	545.7
160	209.80	.92600	712.00	.3730-01	.2570-01	.5220-01	.9183	.1261-02	.2560-02	.1350	.9740	556.8
160	217.70	.15000-01	713.00	.9650-01	.6980-01	.1274	.9183	.3424-02	.6245-02	.4110	2.835	543.5
160	217.70	.30000-01	714.00	.4722	.3240	.4629	.9522	.1588-01	.2270-01	1.679	11.36	557.9
160	217.70	.50000-01	715.00	.4084	.2843	.4183	.9473	.1394-01	.2051-01	1.523	9.896	554.3
160	217.70	.70000-01	716.00	.3714	.2393	.4122	.9410	.1173-01	.2021-01	1.094	7.381	570.3
160	217.70	.10000+00	717.00	.2327	.1626	.2726	.9330	.7970-02	.1337-01	.8770	5.670	553.5
160	217.70	.15000	718.00	.9570-01	.6800-01	.1222	.9235	.3332-02	.5993-02	.3810	2.786	549.2
160	217.70	.20000	719.00	.5080-01	.3720-01	.6570-01	.9187	.1825-02	.3222-02	.2270	1.537	539.1
160	217.70	.30000	720.00	.4370-01	.3170-01	.5750-01	.9183	.1555-02	.2821-02	.1880	1.347	542.7
160	217.70	.35000	721.00	.6100-01	.4410-01	.8050-01	.9183	.2163-02	.3946-02	.2600	1.802	543.6
160	217.70	.37500	722.00	.4810-01	.3490-01	.6320-01	.9183	.1710-02	.3099-02	.2070	1.436	542.6
160	217.70	.50000	723.00	.1260	.8890-01	.1714	.9183	.4357-02	.8405-02	.4900	3.381	551.0
160	217.70	.60000	724.00	.8660-01	.6250-01	.1147	.9183	.3065-02	.5622 02	.3650	2.338	544.4
160	217.70	.70000	725.00	.6570-01	.4760-01	.8660-01	.9183	.2335-02	.4245-02	.2810	1.792	543.1
160	217.70	.80000	726.00	.4130-01	.3020-01	.5380-01	.9183	.1482-02	.2639-02	.1830	1.155	539.9
160	217.70	.87000	727.00	.7070-01	.5100-01	.9380-01	.9183	.2498-02	.4600-02	.2960	1.897	544.9

(RV7F27)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R' FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
160	217.70	.92600	728.00	.6320-01	.4410-01	.8730-01	.9183	.2160-02	.4281-02	.2360	1.712	554.1

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = 5.000 BETA = .0000 GRIT = 4.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TC DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
120	5.500	4.961	5.000	.0000	.0000	178.0	.1910	744.0	105.5	4.051	2768.	.1522-03
127	5.500	4.971	4.980	.0000	.0000	178.0	.1910	742.0	105.3	4.051	2766.	.1524-03
128	5.500	4.982	4.960	.0000	.0000	177.8	.1910	741.0	105.1	4.046	2762.	.1526-03
129	5.500	5.001	4.980	.0000	.0000	177.9	.1910	739.0	104.9	4.050	2760.	.1530-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
120	.8491-07	.4480-01	.1365-01
127	.8479-07	.4479-01	.1364-01
128	.8459-07	.4475-01	.1362-01
129	.8444-07	.4476-01	.1360-01

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
128	.00000	.30000-02	730.00	.4002	.3042	.3503	.9725	.1362-01	.1569-01	2.108	14.18	587.7
128	.00000	.10300-01	731.00	.1698	.1373	.2040	.9146	.6149-02	.9135-02	1.193	8.208	548.5
128	.00000	.15000-01	732.00	.1747	.1421	.2086	.9146	.6362-02	.9343-02	1.265	8.618	543.7
128	.00000	.25000-01	734.00	.3652	.2707	.3262	.9671	.1212-01	.1461-01	1.739	11.53	599.0
128	.00000	.30000-01	735.00	.6643	.4635	.5859	.9654	.2076-01	.2624-01	2.549	16.83	619.7
128	.00000	.40000-01	737.00	.5321	.3961	.4856	.9639	.1774-01	.2175-01	2.576	16.39	597.2
128	.00000	.45000-01	738.00	.4615	.3463	.4270	.9621	.1551-01	.1912-01	2.307	14.92	593.7
128	.00000	.60000-01	739.00	.3851	.2843	.3671	.9569	.1273-01	.1644-01	1.807	11.83	600.5
128	.00000	.70000-01	740.00	.3404	.2535	.3325	.9535	.1135-01	.1489-01	1.650	10.88	597.1
128	.00000	.80000-01	741.00	.2879	.2158	.2875	.9502	.9666-02	.1283-01	1.433	10.17	594.2
128	.00000	.10000+00	742.00	.2499	.1916	.2595	.9439	.8579-02	.1162-01	1.364	8.948	583.5
128	.00000	.12500	743.00	.1920	.1464	.2093	.9367	.6559-02	.9374-02	1.026	7.316	586.0
128	.00000	.15000	744.00	.1552	.1210	.1747	.9303	.5420-02	.7824-02	.9130	6.263	574.9
128	.00000	.17500	745.00	.1028	.8160-01	.1184	.9246	.3654-02	.5303-02	.6580	4.904	562.3
128	.00000	.20000	746.00	.7290-01	.5850-01	.8560-01	.9199	.2620-02	.3826-02	.4910	3.500	554.3
128	.00000	.21500	747.00	.6010-01	.4840-01	.7120-01	.9176	.2166-02	.3190-02	.4130	2.853	551.9

(IH41)(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F27)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
128	.00000	.23000	748.00	.5090-01	.4100-01	.6100-01	.9156	.1838-02	.2732-02	.3520	2.592	551.2
128	.00000	.24000	749.00	.4390-01	.3550-01	.5290-01	.9146	.1588-02	.2368-02	.3060	2.304	549.8
128	.00000	.25000	750.00	.2100-01	.1700-01	.2520-01	.9146	.7621-03	.1131-02	.1480	1.199	547.9
128	.00000	.30000	751.00	.5060-01	.4090-01	.6070-01	.9146	.1833-02	.2721-02	.3560	2.334	548.2
128	.00000	.35000	752.00	.4910-01	.3990-01	.5870-01	.9146	.1785-02	.2631-02	.3520	2.269	545.1
128	.00000	.40000	753.00	.4770-01	.3870-01	.5710-01	.9146	.1733-02	.2555-02	.3410	2.196	545.5
128	.00000	.50000	754.00	.6000-01	.4830-01	.7240-01	.9146	.2165-02	.3241-02	.4140	2.699	551.5
128	.00000	.60000	755.00	.3810-01	.3070-01	.4600-01	.9146	.1374-02	.2062-02	.2610	1.670	552.3
128	.00000	.70000	756.00	.2690-01	.2160-01	.3270-01	.9146	.9662-03	.1462-02	.1810	1.187	555.6
128	.00000	.80000	757.00	.3120-01	.2510-01	.3770-01	.9146	.1122-02	.1688-02	.2120	1.326	553.3
128	.00000	.90000	756.00	.1330-01	.1070-01	.1600-01	.9146	.4779-03	.7174-03	.9100-01	.5850	552.6
128	55.000	.23000	759.00	.4370-01	.3530-01	.5230-01	.9154	.1582-02	.2340-02	.3070	2.280	548.6
128	55.000	.25000	760.00	.1830-01	.1490-01	.2200-01	.9136	.6659-03	.9854-03	.1320	1.033	544.7
128	55.000	.27000	761.00	.2240-01	.1810-01	.2700-01	.9136	.8105-03	.1209-02	.1580	1.173	547.9
128	55.000	.30000	762.00	.4360-01	.3530-01	.5240-01	.9136	.1583-02	.2348-02	.3110	1.873	545.8
128	55.000	.32000	763.00	.5950-01	.4810-01	.7180-01	.9136	.2155-02	.3214-02	.4190	2.479	547.9
128	55.000	.34000	764.00	.7370-01	.5940-01	.8930-01	.9136	.2660-02	.3999-02	.5090	3.015	551.0
128	55.000	.36000	765.00	.6870-01	.5560-01	.8300-01	.9136	.2490-02	.3719-02	.4830	2.902	548.5
128	55.000	.38000	766.00	.8370-01	.6740-01	.1015	.9136	.3018-02	.4546-02	.5760	3.493	551.6
128	55.000	.40000	767.00	.1030	.8260-01	.1257	.9136	.3698-02	.5628-02	.6920	4.303	555.4
128	67.500	.23000	768.00	.4110-01	.3330-01	.4950-01	.9140	.1492-02	.2216-02	.2920	2.171	546.9
128	67.500	.25000	769.00	.1490-01	.1210-01	.1800-01	.9133	.5440-03	.8052-03	.1080	.8410	544.1
128	67.500	.27000	770.00	.2250-01	.1820-01	.2720-01	.9133	.8168-03	.1218-02	.1600	1.164	547.1
128	67.500	.29000	771.00	.2900-01	.2350-01	.3490-01	.9133	.1053-02	.1564-02	.2070	1.285	545.6
128	67.500	.30000	772.00	.6350-01	.5120-01	.7710-01	.9133	.2295-02	.3451-02	.4410	2.691	550.3
128	67.500	.31000	773.00	.8080-01	.6490-01	.9850-01	.9133	.2908-02	.4410-02	.5490	3.318	553.6
128	67.500	.32000	774.00	.8940-01	.7180-01	.1089	.9133	.3216-02	.4878-02	.6070	3.639	553.6
128	67.500	.32500	775.00	.9490-01	.7610-01	.1158	.9133	.3410-02	.5186-02	.6410	3.847	554.6
128	67.500	.33000	776.00	.1011	.8100-01	.1237	.9133	.3628-02	.5538-02	.6770	4.073	555.9
128	67.500	.33500	777.00	.1209	.9630-01	.1487	.9133	.4315-02	.6658-02	.7990	4.738	559.6
128	67.500	.34000	778.00	.1278	.1015	.1578	.9133	.4544-02	.7067-02	.8190	4.913	562.2
128	67.500	.34500	779.00	.1449	.1143	.1803	.9133	.5120-02	.8075-02	.9000	5.403	566.6
128	67.500	.35000	780.00	.1526	.1201	.1905	.9133	.5378-02	.8530-02	.9370	5.632	568.3
128	67.500	.35500	781.00	.1771	.1378	.2239	.9133	.6173-02	.1003-01	1.033	6.209	575.1
128	67.500	.36000	782.00	.1816	.1413	.2296	.9133	.6329-02	.1028-01	1.059	6.365	575.1
128	67.500	.36500	783.00	.1752	.1374	.2195	.9133	.6152-02	.9830-02	1.058	6.357	570.5
128	67.500	.37000	784.00	.1524	.1203	.1895	.9133	.5390-02	.8488-02	.9500	5.752	566.1
128	67.500	.37500	785.00	.1347	.1067	.1668	.9133	.4778-02	.7471-02	.8530	5.212	563.9
128	67.500	.38000	786.00	.1218	.9670-01	.1505	.9133	.4330-02	.6742-02	.7790	4.776	562.6
128	67.500	.39000	787.00	.1111	.8850-01	.1367	.9133	.3962-02	.6123-02	.7220	4.446	560.2
128	67.500	.40000	788.00	.8860-01	.7090-01	.1083	.9133	.3177-02	.4851-02	.5930	3.687	556.9
120	67.500	.50000	789.00	.1500-01	.1220-01	.1790-01	.9130	.5472-03	.8013-03	.1120	.7180	539.8
120	67.500	.60000	790.00	.2700-01	.2200-01	.3250-01	.9130	.9852-03	.1452-02	.1980	1.303	542.6

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F27)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
120	67.500	.70000	791.00	.2480-01	.2010-01	.2990-01	.9130	.9010-03	.1338-02	.1790	1.262	545.6
120	67.500	.80000	792.00	.1540-01	.1250-01	.1850-01	.9130	.5604-03	.8298-03	.1120	.7030	544.4
120	67.500	.90000	793.00	.4300-01	.3490-01	.5180-01	.9130	.1561-02	.2318-02	.3090	1.996	545.6
120	78.000	.27000	794.00	.1600-01	.1310-01	.1920-01	.9130	.5873-03	.8573-03	.1210	.8640	538.3
120	78.000	.29000	795.00	.6390-01	.5220-01	.7670-01	.9130	.2334-02	.3433-02	.4720	2.914	541.7
129	78.000	.30000	796.00	.1256	.9960-01	.1555	.9131	.4457-02	.6956-02	.7980	4.803	561.6
129	78.000	.31000	797.00	.1568	.1223	.1981	.9131	.5470-02	.8865-02	.9190	5.502	572.7
129	78.000	.32000	798.00	.1877	.1434	.2429	.9131	.6418-02	.1087-01	1.009	5.971	583.6
129	78.000	.32500	799.00	.2014	.1527	.2633	.9131	.6832-02	.1178-01	1.047	6.200	587.6
129	78.000	.33000	800.00	.2073	.1563	.2731	.9131	.6994-02	.1222-01	1.053	6.227	590.2
129	78.000	.33500	801.00	.2152	.1613	.2857	.9131	.7217-02	.1278-01	1.067	6.304	592.9
129	78.000	.34000	802.00	.2407	.1811	.3178	.9131	.8105-02	.1422-01	1.213	7.173	591.1
129	78.000	.34500	803.00	.2638	.1991	.3470	.9131	.8908-02	.1553-01	1.345	7.980	589.8
129	78.000	.35000	804.00	.2735	.2086	.3551	.9131	.9334-02	.1589-01	1.456	8.663	584.7
129	78.000	.35500	805.00	.2390	.1845	.3056	.9131	.8255-02	.1367-01	1.341	8.001	578.3
129	78.000	.36000	806.00	.1955	.1514	.2489	.9131	.6776-02	.1114-01	1.114	6.669	576.4
129	78.000	.36500	807.00	.1665	.1296	.2106	.9131	.5800-02	.9424-02	.9710	5.840	573.4
129	78.000	.37000	808.00	.1329	.1042	.1667	.9131	.4663-02	.7460-02	.8000	4.838	569.1
129	78.000	.37500	809.00	.1173	.9250-01	.1463	.9131	.4140-02	.6546-02	.7250	4.388	565.7
129	78.000	.38000	810.00	.9740-01	.7720-01	.1207	.9131	.3454-02	.5402-02	.6160	3.759	562.3
129	78.000	.39000	811.00	.7370-01	.5870-01	.9090-01	.9131	.2624-02	.4067-02	.4760	2.916	559.3
129	78.000	.40000	812.00	.6020-01	.4810-01	.7380-01	.9131	.2153-02	.3304-02	.3980	2.441	556.0
120	90.000	.40000-01	985.00	.4646	.3607	.4507	.9553	.1614-01	.2017-01	2.670	17.13	574.0
120	90.000	.50000-01	986.00	.4175	.3268	.4133	.9518	.1462-01	.1850-01	2.488	15.91	569.3
120	90.000	.60000-01	987.00	.3502	.2689	.3536	.9484	.1203-01	.1583-01	1.916	12.40	580.2
120	90.000	.70000-01	988.00	.3200	.2471	.3295	.9451	.1106-01	.1475-01	1.794	11.88	577.2
120	90.000	.80000-01	989.00	.2738	.2127	.2869	.9420	.9521-02	.1284-01	1.578	11.03	573.6
120	90.000	.10000+00	990.00	.2258	.1784	.2437	.9361	.7985-02	.1091-01	1.407	9.102	563.2
120	90.000	.15000	991.00	.1162	.9260-01	.1339	.9239	.4145-02	.5995-02	.7550	5.518	557.2
129	90.000	.20000	813.00	.2960-01	.2400-01	.3570-01	.9133	.1075-02	.1596-02	.2120	1.541	543.9
129	90.000	.24000	814.00	.2350-01	.1900-01	.2830-01	.9130	.8522-03	.1268-02	.1670	1.357	544.2
129	90.000	.27000	816.00	.1490-01	.1210-01	.1800-01	.9130	.5408-03	.8065-03	.1060	.7530	545.1
129	90.000	.29000	817.00	.1126	.8820-01	.1416	.9130	.3949-02	.6337-02	.6750	4.148	569.7
129	90.000	.30000	818.00	.2256	.1683	.3016	.9130	.7529-02	.1350-01	1.098	6.549	595.0
129	90.000	.31000	819.00	.2620	.1964	.3480	.9130	.8789-02	.1557-01	1.300	7.703	592.8
129	90.000	.32000	820.00	.2658	.1995	.3524	.9130	.8929-02	.1577-01	1.327	7.841	592.2
129	90.000	.32500	821.00	.2627	.1972	.3481	.9130	.8826-02	.1558-01	1.312	7.735	592.1
129	90.000	.33000	822.00	.2725	.2042	.3623	.9130	.9136-02	.1621-01	1.349	7.970	593.1
129	90.000	.33500	823.00	.3225	.2394	.4339	.9130	.1071-01	.1942-01	1.540	9.107	597.0
129	90.000	.34000	824.00	.3999	.2930	.5478	.9130	.1311-01	.2451-01	1.817	10.65	602.2
129	90.000	.34500	825.00	.4430	.3207	.6171	.9130	.1435-01	.2761-01	1.925	11.30	606.6
129	90.000	.35000	826.00	.5212	.3524	.8075	.9130	.1577-01	.3613-01	1.803	10.48	626.4
129	90.000	.36000	828.00	.3788	.2744	.5272	.9130	.1228-01	.2359-01	1.650	9.661	606.3

ORIGINAL PAGE IS
OF POOR QUALITY

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
129	90.000	.36500	829.00	.2356	.1817	.3020	.9130	.8129-02	.1351-01	1.315	7.823	579.0
129	90.000	.37000	830.00	.1386	.1100	.1716	.9130	.4924-02	.7679-02	.8840	5.322	561.1
129	90.000	37500	831.00	.9470-01	.7590-01	.1159	.9130	.3395-02	.5184-02	.6340	3.851	554.0
129	90.000	.38000	832.00	.6680-01	.5390-01	.8130-01	.9130	.2412-02	.3636-02	.4620	2.809	549.4
129	90.000	.39000	833.00	.6130-01	.4950-01	.7440-01	.9130	.2213-02	.3331-02	.4250	2.615	548.8
129	90.000	.40000	834.00	.5410-01	.4360-01	.6580-01	.9130	.1953-02	.2943-02	.3740	2.308	549.3
129	90.000	.50000	835.00	.3450-01	.2780-01	.4200-01	.9130	.1243-02	.1877-02	.2370	1.496	550.0
129	90.000	.60000	836.00	.5050-01	.4080-01	.6130-01	.9130	.1826-02	.2743-02	.3520	2.342	548.0
129	90.000	.70000	837.00	.3970-01	.3190-01	.4830-01	.9130	.1429-02	.2163-02	.2720	1.908	550.8
129	90.000	.80000	838.00	.6500-01	.5240-01	.7920-01	.9130	.2343-02	.3543-02	.4460	2.764	550.5
129	90.000	.90000	839.00	.6820-01	.5420-01	.8440-01	.9130	.2426-02	.3775-02	.4370	2.777	560.4
129	112.50	.23000	840.00	.1770-01	.1440-01	.2140-01	.9130	.6460-03	.9566-03	.1280	1.036	542.3
129	112.50	.25000	841.00	.6200-02	.5100-02	.7500-02	.9130	.2262-03	.3341-03	.4500-01	.3510	541.3
129	112.50	.30000	843.00	.4380-01	.3540-01	.5320-01	.9130	.1584-02	.2382-02	.3050	1.811	548.4
129	112.50	.33000	844.00	.1182	.9440-01	.1453	.9130	.4223-02	.6501-02	.7770	4.660	556.8
129	112.50	.35000	845.00	.1469	.1169	.1811	.9130	.5232-02	.8106-02	.9510	5.794	559.0
129	112.50	.37000	846.00	.9120-01	.7340-01	.1111	.9130	.3284-02	.4970-02	.6240	3.838	550.8
129	112.50	.40000	847.00	.2920-01	.2370-01	.3510-01	.9130	.1062-02	.1570-02	.2120	1.322	541.5
129	112.50	.45000	848.00	.1420-01	.1160-01	.1700-01	.9130	.5175-03	.7608-03	.1040	.6580	539.2
129	112.50	.50000	849.00	.1400-01	.1140-01	.1690-01	.9130	.5107-03	.7559-03	.1010	.6540	542.1
129	112.50	.55000	850.00	.1300-01	.1050-01	.1560-01	.9130	.4715-03	.6979-03	.9400-01	.6270	542.1
129	112.50	.60000	851.00	.2810-01	.2280-01	.3380-01	.9130	.1022-02	.1511-02	.2040	1.369	541.4
129	112.50	.65000	852.00	.4360-01	.3540-01	.5250-01	.9130	.1584-02	.2351-02	.3130	2.133	543.2
129	112.50	.70000	853.00	.5600-01	.4530-01	.6780-01	.9130	.2027-02	.3036-02	.3930	2.759	546.8
129	112.50	.75000	854.00	.4460-01	.3620-01	.5400-01	.9130	.1619-02	.2416-02	.3160	2.052	545.4
129	112.50	.80000	855.00	.4730-01	.3840-01	.5720-01	.9130	.1719-02	.2557-02	.3380	2.200	544.2
129	112.50	.90000	856.00	.2160-01	.1730-01	.2640-01	.9130	.7742-03	.1182-02	.1450	.9350	553.8
129	125.40	.84000	857.00	.4990-01	.4020-01	.6080-01	.9130	.1800-02	.2720-02	.3430	2.117	550.1
129	125.40	.85000	858.00	.5150-01	.4150-01	.6270-01	.9130	.1855-02	.2804-02	.3530	2.191	550.3
129	125.40	.86000	859.00	.4180-01	.3370-01	.5090-01	.9130	.1509-02	.2276-02	.2880	1.805	549.6
129	125.40	.87000	860.00	.4140-01	.3340-01	.5030-01	.9130	.1494-02	.2252-02	.2860	1.794	549.4
129	125.40	.88000	861.00	.4510-01	.3640-01	.5500-01	.9130	.1627-02	.2460-02	.3100	1.942	550.3
129	125.40	.89000	862.00	.4570-01	.3670-01	.5580-01	.9130	.1642-02	.2498-02	.3090	1.948	552.5
129	125.40	.90000	863.00	.4740-01	.3810-01	.5800-01	.9130	.1704-02	.2595-02	.3200	2.028	553.0
129	125.40	.91000	864.00	.2950-01	.2370-01	.3600-01	.9130	.1059-02	.1611-02	.1990	1.443	552.8
129	125.40	.92600	865.00	.4590-01	.3640-01	.5690-01	.9130	.1628-02	.2545-02	.2910	2.096	561.8
129	129.30	.80000	866.00	.4130-01	.3340-01	.5010-01	.9130	.1496-02	.2243-02	.2890	1.818	547.3
129	129.30	.81000	867.00	.3920-01	.3170-01	.4750-01	.9130	.1418-02	.2126-02	.2740	1.715	547.2
129	129.30	.82000	868.00	.3820-01	.3090-01	.4630-01	.9130	.1382-02	.2073-02	.2670	1.671	547.3
129	129.30	.83000	869.00	.4570-01	.3680-01	.5570-01	.9130	.1648-02	.2491-02	.3140	1.963	550.3
129	135.00	.40000-01	870.00	.3768	.2936	.3775	.9497	.1314-01	.1689-01	2.206	14.00	572.9
129	135.00	.50000-01	871.00	.4179	.3260	.4269	.9462	.1459-01	.1910-01	2.459	15.52	572.2
129	135.00	.60000-01	872.00	.3146	.2431	.3282	.9429	.1088-01	.1469-01	1.774	11.60	577.6

(IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RVTF27)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF P=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
129	135.00	.70000-01	873.00	.2686	.2093	.2852	.9397	.9364-02	.1276-01	1.570	10.54	573.1
129	135.00	.10000+00	875.00	.1853	.1472	.2053	.9312	.6588-02	.9186-02	1.187	7.736	560.6
129	135.00	.15000	876.00	.9440-01	.7570-01	.1106	.9202	.3386-02	.4950-02	.6340	4.620	553.7
129	135.00	.20000	877.00	.3900-01	.3170-01	.4680-01	.9138	.1418-02	.2095-02	.2800	1.892	543.2
129	135.00	.35000	878.00	.3010-01	.2450-01	.3620-01	.9130	.1095-02	.1620-02	.2180	1.356	542.0
129	135.00	.40000	879.00	.5860-01	.4750-01	.7090-01	.9130	.2126-02	.3172-02	.4150	2.635	545.4
129	135.00	.50000	880.00	.4350-01	.3520-01	.5270-01	.9130	.1576-02	.2358-02	.3060	2.104	546.4
129	135.00	.55000	881.00	.4250-01	.3440-01	.5150-01	.9130	.1541-02	.2303-02	.3000	2.000	546.0
129	135.00	.60000	882.00	.5910-01	.4780-01	.7170-01	.9130	.2139-02	.3210-02	.4130	2.775	547.6
129	135.00	.65000	883.00	.5530-01	.4470-01	.6710-01	.9130	.2002-02	.3000-02	.3880	2.646	547.0
129	135.00	.70000	884.00	.4520-01	.3650-01	.5470-01	.9130	.1635-02	.2448-02	.3170	2.254	545.8
129	135.00	.75000	885.00	.4330-01	.3500-01	.5260-01	.9130	.1566-02	.2355-02	.3010	1.895	548.5
129	135.00	.80000	886.00	.4280-01	.3460-01	.5180-01	.9130	.1550-02	.2319-02	.3010	1.895	546.3
129	135.00	.84000	887.00	.8480-01	.6850-01	.1027	.9130	.3066-02	.4596-02	.5960	3.742	549.8
120	135.00	.85000	888.00	.6420-01	.5140-01	.7860-01	.9130	.2301-02	.3520-02	.4270	2.699	553.7
120	135.00	.86000	889.00	.4220-01	.3400-01	.5150-01	.9130	.1521-02	.2306-02	.2870	1.812	550.5
120	135.00	.87000	890.00	.4540-01	.3650-01	.5530-01	.9130	.1635-02	.2475-02	.3100	1.965	550.0
120	135.00	.88000	891.00	.4810-01	.3870-01	.5870-01	.9130	.1732-02	.2629-02	.3260	2.083	550.9
120	135.00	.89000	892.00	.5080-01	.4080-01	.6210-01	.9130	.1824-02	.2780-02	.3410	2.213	552.4
120	135.00	.90000	893.00	.5160-01	.4140-01	.6320-01	.9130	.1852-02	.2828-02	.3450	2.266	553.0
120	135.00	.91000	894.00	.2770-01	.2220-01	.3380-01	.9130	.9931-03	.1514-02	.1860	1.351	552.4
120	135.00	.92600	895.00	.4770-01	.3780-01	.5910-01	.9130	.1692-02	.2647-02	.3020	2.179	561.0
120	135.00	.95000	896.00	.3470-01	.2800-01	.4210-01	.9130	.1252-02	.1885-02	.2400	1.734	547.6
120	142.30	.42000	897.00	.1147	.9170-01	.1408	.9130	.4106-02	.6300-02	.7580	4.857	554.7
120	142.30	.43500	898.00	.1279	.1025	.1567	.9130	.4589-02	.7011-02	.8540	5.321	553.2
120	142.30	.45000	899.00	.8980-01	.7240-01	.1094	.9130	.3238-02	.4896-02	.6150	4.021	549.4
120	142.30	.50000	900.00	.6830-01	.5510-01	.8290-01	.9130	.2467-02	.3711-02	.4730	3.152	547.5
120	142.30	.60000	901.00	.7420-01	.6010-01	.8980-01	.9130	.2689-02	.4018-02	.5230	3.474	545.0
120	142.30	.70000	902.00	.5960-01	.4810-01	.7250-01	.9130	.2154-02	.3244-02	.4120	2.811	548.0
120	142.30	.80000	903.00	.6150-01	.4970-01	.7450-01	.9130	.2226-02	.3334-02	.4310	2.738	546.0
120	142.30	.87000	904.00	.4610-01	.3690-01	.5640-01	.9130	.1653-02	.2524-02	.3080	1.942	553.0
120	154.98	.42000	905.00	.1274	.1018	.1565	.9130	.4557-02	.7005-02	.8390	5.387	555.3
120	154.98	.43500	906.00	.1205	.9620-01	.1481	.9130	.4307-02	.6627-02	.7920	5.112	555.6
120	154.98	.45000	907.00	.1062	.8500-01	.1301	.9130	.3806-02	.5821-02	.7070	4.596	553.7
120	154.98	.50000	908.00	.7770-01	.6250-01	.9470-01	.9130	.2797-02	.4236-02	.5290	3.781	550.1
120	154.98	.93500	913.00	.1329	.1038	.1677	.9130	.4645-02	.7504-02	.7850	5.637	570.5
120	154.98	.94500	914.00	.9100-01	.7220-01	.1127	.9130	.3233-02	.5044-02	.5790	4.143	550.2
120	157.50	.80000-01	919.00	.2144	.1695	.2327	.9352	.7587-02	.1042-01	1.338	9.060	563.0
120	157.50	.20000	922.00	.3470-01	.2820-01	.4170-01	.9134	.1262-02	.1865-02	.2500	1.669	541.4
120	157.50	.42000	923.00	.8570-01	.6900-01	.1045	.9130	.3088-02	.4676-02	.5850	3.811	550.0
120	157.50	.43500	924.00	.1353	.1080	.1664	.9130	.4836-02	.7449-02	.8870	5.776	556.0
120	157.50	.45000	925.00	.1108	.8840-01	.1364	.9130	.3957-02	.6105-02	.7240	4.753	556.6
120	157.50	.85000	926.00	.2460-01	.1980-01	.2990-01	.9130	.8860-03	.1338-02	.1690	1.089	549.1

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
120	157.50	.86000	927.00	.2470-01	.1910-01	.3000-01	.9130	.8892-03	.1344-02	.1690	1.096	549.2
120	157.50	.87000	928.00	.4450-01	.3570-01	.5440-01	.9130	.1597-02	.2435-02	.2980	1.936	552.5
120	157.50	.88000	929.00	.7490-01	.5990-01	.9200-01	.9130	.2690-02	.4118-02	.4940	3.216	555.2
120	157.50	.89000	930.00	.9850-01	.7840-01	.1216	.9130	.3511-02	.5442-02	.6360	4.165	558.2
120	157.50	.90000	931.00	.7080-01	.5620-01	.8750-01	.9130	.2517-02	.3918-02	.4530	3.032	559.5
120	157.50	.91000	932.00	.4920-01	.3900-01	.6100-01	.9130	.1745-02	.2728-02	.3120	2.264	560.9
120	157.50	.92600	933.00	.4610-01	.3610-01	.5790-01	.9130	.1617-02	.2593-02	.2760	1.993	568.5
120	163.12	.41500	934.00	.9630-01	.7710-01	.1181	.9130	.3451-02	.5288-02	.6390	4.130	554.2
120	163.12	.42000	935.00	.1203	.9560-01	.1486	.9130	.4280-02	.6650-02	.7720	5.023	558.9
120	163.12	.43000	937.00	.1532	.1206	.1915	.9130	.5399-02	.8572-02	.9380	6.101	565.6
120	163.12	.44000	938.00	.1879	.1480	.2346	.9130	.6624-02	.1050-01	1.154	7.484	565.2
120	163.12	.44500	939.00	.1684	.1331	.2095	.9130	.5955-02	.9376-02	1.050	6.916	563.1
120	163.12	.45000	940.00	.1576	.1249	.1954	.9130	.5590-02	.8746-02	.9970	6.571	561.1
120	163.12	.50000	941.00	.8820-01	.7040-01	.1086	.9130	.3151-02	.4860-02	.5760	3.891	556.5
120	163.12	.60000	942.00	.8240-01	.6630-01	.1005	.9130	.2969-02	.4497-02	.5620	3.619	550.1
120	163.12	.70000	943.00	.5760-01	.4660-01	.6980-01	.9130	.2086-02	.3126-02	.4040	2.773	546.0
120	163.12	.80000	944.00	.4400-01	.3560-01	.5330-01	.9130	.1593-02	.2386-02	.3080	2.010	546.0
120	168.00	.35000	945.00	.3980-01	.3220-01	.4800-01	.9130	.1443-02	.2151-02	.2820	1.791	543.9
120	168.00	.36000	946.00	.4190-01	.3400-01	.5070-01	.9130	.1521-02	.2267-02	.2970	1.892	544.0
120	168.00	.37000	947.00	.4340-01	.3510-01	.5250-01	.9130	.1572-02	.2349-02	.3060	1.950	545.0
120	168.00	.37500	948.00	.5080-01	.4110-01	.6160-01	.9130	.1837-02	.2755-02	.3550	2.263	546.3
120	168.00	.38500	950.00	.5160-01	.4170-01	.6250-01	.9130	.1866-02	.2797-02	.3600	2.325	546.2
120	168.00	.39000	951.00	.6550-01	.5280-01	.7990-01	.9130	.2361-02	.3576-02	.4470	2.895	550.0
120	168.00	.39500	952.00	.7640-01	.6130-01	.9350-01	.9130	.2741-02	.4183-02	.5120	3.261	552.8
120	168.00	.40000	953.00	.8250-01	.6600-01	.1012	.9130	.2953-02	.4531-02	.5460	3.535	554.7
120	168.00	.40500	954.00	.1004	.8000-01	.1238	.9130	.3581-02	.5543-02	.6510	4.224	557.6
120	168.00	.41000	955.00	.1192	.9460-01	.1477	.9130	.4233-02	.6613-02	.7570	4.904	560.6
120	168.00	.41500	956.00	.1426	.1126	.1776	.9130	.5041-02	.7949-02	.8860	5.751	563.6
120	168.00	.42000	957.00	.1630	.1282	.2040	.9130	.5738-02	.9131-02	.9940	6.457	566.3
120	168.00	.42500	958.00	.1316	.1042	.1633	.9130	.4664-02	.7310-02	.8230	5.399	561.7
120	168.00	.43000	959.00	.2040	.1569	.2623	.9130	.7024-02	.1174-01	1.125	7.242	579.2
120	168.00	.44000	960.00	.2271	.1771	.2872	.9130	.7924-02	.1285-01	1.329	8.617	571.6
120	168.00	.44500	961.00	.1927	.1520	.2402	.9130	.6805-02	.1075-01	1.193	7.761	564.1
120	168.00	.45000	962.00	.1671	.1329	.2065	.9130	.5946-02	.9242-02	1.073	7.038	559.0
120	168.00	.45500	963.00	.1506	.1200	.1857	.9130	.5373-02	.8309-02	.9780	6.421	557.4
120	168.00	.46000	964.00	.1340	.1065	.1656	.9130	.4768-02	.7411-02	.8600	5.676	559.1
120	168.00	.47000	965.00	.1259	.1001	.1557	.9130	.4473-02	.6970-02	.8060	5.337	559.4
120	168.00	.48000	966.00	.1033	.8710-01	.1349	.9130	.3692-02	.6035-02	.7080	4.733	557.7
120	168.00	.49000	967.00	.8500-01	.6820-01	.1039	.9130	.3052-02	.4648-02	.5520	3.836	562.0
120	168.00	.85000	968.00	.3290-01	.2650-01	.4000-01	.9130	.1185-02	.1793-02	.2250	1.460	549.2
120	168.00	.86000	969.00	.3230-01	.2590-01	.3940-01	.9130	.1160-02	.1763-02	.2180	1.417	551.3
120	168.00	.87000	970.00	.3776-01	.3030-01	.4610-01	.9130	.1350-02	.2054-02	.2510	1.634	553.4
120	168.00	.88000	971.00	.9520-01	.7650-01	.1165	.9130	.3880-02	.5878-02	.6910	3.910	556.7

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(.) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
120	168.00	.89000	972.00	.1124	.8940-01	.1389	.9130	.3999-02	.6217-02	.7210	4.760	559.1
120	168.00	.90000	973.00	.8690-01	.6890-01	.1079	.9130	.3082-02	.4827-02	.5480	3.703	561.5
120	168.00	.91000	974.00	.5930-01	.4690-01	.7380-01	.9130	.2097-02	.3302-02	.3700	2.674	563.1
120	168.00	.92600	975.00	.3230-01	.2510-01	.4120-01	.9130	.1122-02	.1844-02	.1840	1.317	575.2
120	168.00	.95000	976.00	.4430-01	.3580-01	.5360-01	.9130	.1604-02	.2401-02	.3110	2.238	545.7
120	180.00	.20000-01	982.00	.8600-01	.6970-01	.8500-01	.9525	.3122-02	.3804-02	.6110	4.253	543.7
120	180.00	.25000-01	983.00	.1339	.1080	.1335	.9505	.4835-02	.5976-02	.9270	6.398	547.8
120	180.00	.30000-01	984.00	.2932	.2311	.2950	.9489	.1034-01	.1320-01	1.804	12.28	565.0
120	180.00	.40000-01	600.00	.3296	.2598	.3343	.9474	.1164-01	.1498-01	2.043	12.99	568.0
127	180.00	.50000-01	601.00	.3627	.2860	.3749	.9439	.1281-01	.1680-01	2.252	14.37	567.8
127	180.00	.60000-01	602.00	.2960	.2306	.3126	.9407	.1033-01	.1400-01	1.737	11.41	575.3
127	180.00	.70000-01	603.00	.2313	.1822	.2480	.9376	.8161-02	.1111-01	1.427	9.635	568.6
127	180.00	.80000-01	604.00	.2140	.1695	.2328	.9346	.7592-02	.1043-01	1.356	8.740	564.9
127	180.00	.10000+00	605.00	.1533	.1223	.1713	.9293	.5479-02	.7675-02	1.007	7.180	559.7
127	180.00	.15000	606.00	.7330-01	.5910-01	.8630-01	.9188	.2646-02	.3865-02	.5060	3.671	552.2
127	180.00	.20000	607.00	.3170-01	.2590-01	.3810-01	.9133	.1158-02	.1707-02	.2320	1.518	543.0
127	180.00	.21000	608.00	.2220-01	.1810-01	.2660-01	.9130	.8108-03	.1194-02	.1630	1.132	541.9
127	180.00	.22000	609.00	.1790-01	.1460-01	.2150-01	.9130	.6538-03	.9653-03	.1310	.9770	543.1
127	180.00	.30000	610.00	.3670-01	.2980-01	.4430-01	.9130	.1334-02	.1986-02	.2630	1.798	546.6
127	180.00	.35000	611.00	.3280-01	.2660-01	.3960-01	.9130	.1191-02	.1774-02	.2340	1.560	546.8
127	180.00	.36000	612.00	.3490-01	.2830-01	.4220-01	.9130	.1266-02	.1893-02	.2470	1.662	548.1
127	180.00	.37000	613.00	.3980-01	.3210-01	.4830-01	.9130	.1439-02	.2164-02	.2780	1.865	550.4
127	180.00	.37500	614.00	.4060-01	.3270-01	.4950-01	.9130	.1465-02	.2216-02	.2800	1.877	552.5
127	180.00	.38000	615.00	.4070-01	.3280-01	.4970-01	.9130	.1468-02	.2227-02	.2780	1.865	553.8
127	180.00	.38500	616.00	.4370-01	.3500-01	.5340-01	.9130	.1568-02	.2393-02	.2940	1.970	555.8
127	180.00	.39000	617.00	.5730-01	.4580-01	.7040-01	.9130	.2054-02	.3153-02	.3810	2.539	558.0
127	180.00	.39500	618.00	.6020-01	.4800-01	.7420-01	.9130	.2149-02	.3326-02	.3930	2.629	560.8
127	180.00	.40000	619.00	.7470-01	.5930-01	.9260-01	.9130	.2655-02	.4148-02	.4770	3.170	563.8
127	180.00	.40500	620.00	.9120-01	.7210-01	.1135	.9130	.3230-02	.5086-02	.5720	3.810	566.3
127	180.00	.41000	621.00	.1186	.9320-01	.1485	.9130	.4175-02	.6651-02	.7260	4.822	569.7
127	180.00	.41500	622.00	.1548	.1210	.1953	.9130	.5419-02	.8747-02	.9210	6.090	573.5
127	180.00	.42500	624.00	.2152	.1658	.2760	.9130	.7427-02	.1237-01	1.203	7.921	581.6
127	180.00	.43000	625.00	.2527	.1939	.3259	.9130	.8685-02	.1460-01	1.387	9.151	583.8
127	180.00	.44000	626.00	.3037	.2316	.3946	.9130	.1038-01	.1768-01	1.625	10.71	586.9
127	180.00	.44500	627.00	.2950	.2256	.3818	.9130	.1011-01	.1710-01	1.599	10.64	585.4
127	180.00	.45000	628.00	.2521	.1955	.3207	.9130	.8760-02	.1437-01	1.452	9.696	577.8
127	180.00	.45500	629.00	.1840	.1449	.2300	.9130	.6490-02	.1030-01	1.134	7.725	568.8
127	180.00	.46000	630.00	.1343	.1069	.1657	.9130	.4789-02	.7423-02	.8730	5.824	561.3
127	180.00	.47000	631.00	.6160-01	.4950-01	.7520-01	.9130	.2217-02	.3369-02	.4190	2.808	554.3
127	180.00	.48000	632.00	.2540-01	.2040-01	.3090-01	.9130	.9154-03	.1385-02	.1750	1.178	552.7
127	180.00	.49000	633.00	.3030-01	.2440-01	.3690-01	.9130	.1092-02	.1655-02	.2080	1.413	553.3
127	180.00	.50000	634.00	.3450-01	.3570-01	.5450-01	.9130	.1598-02	.2441-02	.2990	2.083	556.3
127	180.00	.55000	635.00	.1214	.9650-01	.1501	.9130	.4325-03	.6722-02	.7850	5.171	562.1

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F27)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
127	180.00	.60000	636.00	.1089	.8740-01	.1332	.9130	.3914-02	.5966-02	.7360	4.726	555.4
127	180.00	.65000	637.00	.8930-01	.7200-01	.1085	.9130	.3228-02	.4859-02	.6220	4.014	550.8
127	180.00	.70000	638.00	.7130-01	.5750-01	.8670-01	.9130	.2577-02	.3883-02	.4960	3.385	551.2
127	180.00	.75000	639.00	.4440-01	.3600-01	.5360-01	.9130	.1614-02	.2403-02	.3180	2.049	546.6
127	180.00	.80000	640.00	.4440-01	.3590-01	.5370-01	.9130	.1610-02	.2405-02	.3150	1.974	547.8
127	180.00	.85000	641.00	.4200-01	.3380-01	.5120-01	.9130	.1513-02	.2296-02	.2870	1.809	553.7
127	180.00	.85000	642.00	.4040-01	.3240-01	.4940-01	.9130	.1452-02	.2214-02	.2730	1.744	555.4
127	180.00	.87000	643.00	.3860-01	.3090-01	.4740-01	.9130	.1382-02	.2124-02	.2560	1.642	558.2
127	180.00	.88000	644.00	.6540-01	5210-01	.8070-01	.9130	.2333-02	.3615-02	.4260	2.748	561.1
127	180.00	.89000	645.00	.9510-01	.7540-01	.1178	.9130	.3378-02	.5279-02	.6070	3.960	563.9
127	180.00	.90000	646.00	.5810-01	.4620-01	.7200-01	.9130	.2068-02	.3223-02	.3730	2.488	563.1
127	180.00	.92600	648.00	.6400-01	.4940-01	.8210-01	.9130	.2211-02	.3678-02	.3590	2.572	581.3
127	180.00	.95000	649.00	.3030-01	.2460-01	.3650-01	.9130	.1100-02	.1637-02	.2170	1.567	546.3
127	191.25	.35000	650.00	.3840-01	.3110-01	.4640-01	.9130	.1395-02	.2078-02	.2740	1.844	546.8
127	191.25	.36000	651.00	.4010-01	.3250-01	.4840-01	.9130	.1455-02	.2169-02	.2860	1.925	547.2
127	191.25	.37000	652.00	.3970-01	.3210-01	.4810-01	.9130	.1439-02	.2153-02	.2810	1.887	548.3
127	191.25	.37500	653.00	.4200-01	.3390-01	.5090-01	.9130	.1520-02	.2280-02	.2950	1.986	549.5
127	191.25	.38000	654.00	.4450-01	.3600-01	.5400-01	.9130	.1613-02	.2420-02	.3130	2.107	549.5
127	191.25	.38500	655.00	.5000-01	.4040-01	.6080-01	.9130	.1810-02	.2724-02	.3490	2.346	550.8
127	191.25	.39000	656.00	.5560-01	.4490-01	.6800-01	.9130	.2009-02	.3046-02	.3820	2.566	553.4
127	191.25	.39500	657.00	.6870-01	.5510-01	.8420-01	.9130	.2466-02	.3773-02	.4610	3.089	556.8
127	191.25	.40000	658.00	.7130-01	.5690-01	.8780-01	.9130	.2548-02	.3932-02	.4680	3.147	559.7
127	191.25	.41000	660.00	.1072	.8500-01	.1328	.9130	.3809-02	.5947-02	.6850	4.580	563.6
127	191.25	.41500	661.00	.1325	.1048	.1646	.9130	.4694-02	.7375-02	.8350	5.562	565.6
127	191.25	.42000	662.00	.1737	.1356	.2193	.9130	.6073-02	.9813-02	1.028	6.838	574.2
127	191.25	.42500	663.00	.2077	.1609	.2648	.9130	.7207-02	.1186-01	1.188	7.906	578.7
127	191.25	.43000	664.00	.2635	.2004	3436	.9130	.8977-02	.1539-01	1.393	9.311	588.3
127	191.25	.44000	665.00	.2852	.2201	.3680	.9130	.9862-02	.1648-01	1.588	10.58	582.5
127	191.25	.45000	666.00	.1990	.1569	.2484	.9130	.7027-02	.1113-01	1.234	8.281	567.9
127	191.25	.45500	667.00	.1738	.1373	.2165	.9130	.6150-02	.9698-02	1.087	7.300	566.7
127	191.25	.46000	668.00	.1595	.1256	.1989	.9130	.5635-02	.8910-02	.9920	6.676	567.6
127	191.25	.47000	669.00	.1295	.1025	.1608	.9130	.4591-02	.7204-02	.8190	5.535	565.2
127	191.25	.48000	670.00	.1159	.9210-01	.1433	.9130	.4126-02	.6422-02	.7470	5.056	562.6
127	191.25	.49000	671.00	.1062	.8430-01	.1315	.9130	.3778-02	.5890-02	.6810	4.597	563.2
127	191.25	.50000	672.00	.1156	.9140-01	.1437	.9130	.4034-02	.6438-02	.7270	5.007	565.9
127	191.25	.60000	673.00	.8620-01	.6950-01	.1046	.9130	.3116-02	.4687-02	.6010	3.846	550.6
127	191.25	.70000	674.00	.1172	.9340-01	.1442	.9130	.4185-02	.6485-02	.7670	5.186	560.1
127	191.25	.85000	676.00	.6070-01	.4880-01	.7400-01	.9130	.2186-02	.3317-02	.4140	2.610	553.9
127	191.25	.86000	677.00	.4560-01	.3660-01	.5580-01	.9130	.1638-02	.2499-02	.3060	1.959	555.6
127	191.25	.87000	678.00	.5460-01	.4390-01	.6740-01	.9130	.1967-02	.3019-02	.3650	2.340	558.0
127	191.25	.88000	679.00	.5570-01	.4510-01	.6990-01	.9130	.2021-02	.3131-02	.3680	2.387	561.1
127	191.25	.89000	680.00	.5070-01	.4020-01	.6280-01	.9130	.1800-02	.2813-02	.3230	2.121	564.0
127	191.25	.90000	681.00	.4400-01	.3470-01	.5490-01	.9130	.1557-02	.2456-02	.2750	1.835	566.9

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F2")

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
127	191.25	.91000	682.00	.1380-01	.1490-01	.2340-01	.9130	.6655-03	.1050-02	.1180	.8480	566.9
127	191.25	.92600	683.00	.1057	.8210-01	.1343	.9130	.3678-02	.6015-02	.6120	4.413	577.0
127	191.25	.95000	684.00	.2740-01	.2220-01	.3310-01	.9130	.9964-03	.1482-02	.1970	1.421	546.2
127	197.00	.33000	685.00	.3650-01	.2960-01	.4400-01	.9130	.1327-02	.1972-02	.2630	1.767	545.5
127	197.00	.34000	686.00	.3770-01	.3060-01	.4560-01	.9130	.1373-02	.2041-02	.2710	1.823	546.0
127	197.00	.35000	687.00	.4130-01	.3350-01	.4980-01	.9130	.1501-02	.2230-02	.2970	1.995	545.8
127	197.00	.36000	688.00	.4640-01	.3760-01	.5600-01	.9130	.1683-02	.2510-02	.3310	2.222	547.1
127	197.00	.37000	689.00	.3960-01	.3210-01	.4790-01	.9130	.1436-02	.2148-02	.2800	1.882	549.3
127	197.00	.37500	690.00	.4800-01	.3880-01	.5820-01	.9130	.1738-02	.2608-02	.3370	2.267	549.7
127	197.00	.50000	691.00	.1852	.1418	.2396	.9130	.6352-02	.1073-01	1.006	6.637	585.1
127	197.00	.60000	692.00	.8170-01	.6560-01	.9970-01	.9130	.2940-02	.4468-02	.5560	3.573	554.3
127	197.00	.70000	693.00	.1697	.1318	.2156	.9130	.5904-02	.9658-02	.9830	6.564	577.1
127	197.00	.80000	694.00	.4430-01	.3590-01	.5360-01	.9130	.1608-02	.2403-02	.3150	1.977	547.9
127	197.00	.87000	695.00	.4620-01	.3690-01	.5680-01	.9130	.1654-02	.2544-02	.3060	1.939	558.5
127	197.00	.92600	696.00	.1261	.9800-01	.1601	.9130	.4392-02	.7171-02	.7330	5.286	576.6
127	209.80	.15000-01	697.00	.8570-01	.6950-01	.1036	.9130	.3114-02	.4643-02	.6120	4.201	547.0
128	209.80	.30000-01	698.00	.3776	.2972	.3778	.9499	.1331-01	.1692-01	2.322	15.63	568.0
128	209.80	.50000-01	699.00	.3589	.2839	.3687	.9450	.1271-01	.1651-01	2.258	14.22	564.9
128	209.80	.70000-01	700.00	.3372	.2594	.3621	.9386	.1162-01	.1622-01	1.869	12.42	581.6
128	209.80	.10000+00	701.00	.1769	.1406	.1971	.9301	.6299-02	.8826-02	1.141	7.224	561.3
128	209.80	.15000	702.00	.7690-01	.6170-01	.9050-01	.9194	.2762-02	.4052-02	.5190	3.696	554.7
128	209.80	.20000	703.00	.4360-01	.3540-01	.5250-01	.9135	.1587-02	.2350-02	.3140	2.093	544.7
128	209.80	.30000	704.00	.4630-01	.3750-01	.5610-01	.9130	.1678-02	.2515-02	.3260	2.306	548.3
128	209.80	.35000	705.00	.4880-01	.3950-01	.5920-01	.9130	.1770-02	.2649-02	.3440	2.357	547.8
128	209.80	.37500	706.00	.6180-01	.4980-01	.7520-01	.9130	.2231-02	.3367-02	.4270	2.927	551.0
128	209.80	.50000	707.00	.1322	.1050	.1636	.9130	.4701-02	.7327-02	.8470	5.756	562.2
128	209.80	.60000	708.00	.7010-01	.5670-01	.8500-01	.9130	.2538-02	.3808-02	.4910	3.129	548.8
128	209.80	.70000	709.00	.9850-01	.7890-01	.1209	.9130	.3533-02	.5417-02	.6560	4.161	556.8
128	209.80	.80000	710.00	.2790-01	.2270-01	.3370-01	.9130	.1015-02	.1509-02	.2010	1.251	545.0
128	209.80	.87000	711.00	.4410-01	.3540-01	.5380-01	.9130	.1587-02	.2411-02	.3000	1.891	553.3
128	209.80	.92600	712.00	.8710-01	.6890-01	.1084	.9130	.3085-02	.4854-02	.5470	3.939	565.2
128	217.70	.15000-01	713.00	.8600-01	.6980-01	.1038	.9130	.3128-02	.4649-02	.6180	4.257	545.0
128	217.70	.30000-01	714.00	.3587	.2825	.3578	.9505	.1265-01	.1602-01	2.212	14.89	567.7
128	217.70	.50000-01	715.00	.4001	.3153	.4098	.9456	.1412-01	.1836-01	2.475	15.98	567.2
128	217.70	.70000-01	716.00	.3662	.2889	.3923	.9391	.1236-01	.1766-01	1.862	12.42	591.8
128	217.70	.10000+00	717.00	.1958	.1543	.2186	.9306	.6908-02	.9792-02	1.208	7.756	567.6
128	217.70	.15000	718.00	.9020-01	.7200-01	.1064	.9198	.3223-02	.4767-02	.5920	4.309	558.6
128	217.70	.20000	719.00	.4550-01	.3700-01	.5470-01	.9137	.1657-02	.2451-02	.3280	2.210	544.8
128	217.70	.30000	720.00	.4240-01	.3430-01	.5140-01	.9130	.1538-02	.2301-02	.3090	2.142	547.7
128	217.70	.35000	721.00	.4770-01	.3860-01	.5770-01	.9130	.1730-02	.2583-02	.3380	2.344	546.9
128	217.70	.37500	722.00	.4060-01	.3290-01	.4910-01	.9130	.1475-02	.2199-02	.2900	2.008	546.1
128	217.70	.50000	723.00	.8240-01	.6640-01	.1002	.9130	.2973-02	.4490-02	.5680	3.918	551.3
128	217.70	.60000	724.00	.9260-01	.7480-01	.1122	.9130	.3352-02	.5026-02	.6500	4.150	549.6

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F27)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
128	217.70	.70000	725.00	.6050-01	.4900-01	.7330-01	.9130	.2195-02	.3282-02	.4280	2.721	547.4
128	217.70	.80000	726.00	.2400-01	.1950-01	.2900-01	.9130	.8730-03	.1298-02	.1720	1.083	545.1
128	217.70	.87000	727.00	.6380-01	.5130-01	.7770-01	.9130	.2298-02	.3482-02	.4360	2.782	552.5
128	217.70	.92600	728.00	.8290-01	.6590-01	.1024	.9130	.2952-02	.4586-02	.5350	3.861	561.2

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = 5.000 BETA = -3.000 GRIT = 4.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
180	4.520	5.056	5.020	2.900	-30.00	97.10	.3270	665.0	130.7	4.681	2532.	.2101-03
181	4.520	5.051	4.980	3.000	-31.00	97.00	.3270	665.0	130.7	4.677	2532.	.2099-03
182	4.520	5.059	4.980	3.000	31.00	97.20	.3280	665.0	130.7	4.685	2532.	.2103-03
188	4.520	5.062	5.030	3.000	-31.00	97.20	.3270	664.0	130.6	4.683	2531.	.2103-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
180	.1052-06	.4739-01	.1140-01
181	.1052-06	.4737-01	.1140-01
182	.1052-06	.4741-01	.1139-01
188	.1052-06	.4739-01	.1139-01

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
181	.00000	.30000-02	730.00	.4408	.2968	.3560	.9746	.1406-01	.1686-01	1.430	9.739	563.2
181	.00000	.10300-01	731.00	.1798	.1326	.2300	.9193	.6282-02	.1090-01	.7960	5.554	538.2
181	.00000	.15000-01	732.00	.1612	.1197	.2049	.9193	.5669-02	.9[illegible]-02	.7310	5.002	535.9
181	.00000	.25000-01	734.00	.5388	.3559	.4510	.9689	.1686-01	.2137-01	1.651	11.12	567.0
181	.00000	.30000-01	735.00	.7695	.4696	.6308	.9672	.2225-01	.2988-01	1.897	12.78	579.6
181	.00000	.40000-01	737.00	.5721	.3789	.4933	.9657	.1795-01	.2337-01	1.766	11.41	566.5
181	.00000	.45000-01	738.00	.5384	.3612	.4741	.9638	.1711-01	.2246-01	1.728	11.34	563.9
181	.00000	.60000-01	739.00	.4432	.2927	.4076	.9585	.1387-01	.1931-01	1.358	9.033	567.0
181	.00000	.70000-01	740.00	.3812	.2541	.3628	.9551	.1204-01	.1719-01	1.200	8.040	565.2
181	.00000	.80000-01	741.00	.3184	.2143	.3130	.9518	.1015-01	.1483-01	1.032	7.443	563.2
181	.00000	.10000+00	742.00	.2794	.1935	.2907	.9456	.9166-02	.1377-01	.9910	6.588	556.8
181	.00000	12500	743.00	.2246	.1543	.2505	.9387	.7308-02	.1187-01	.7760	5.605	558.7
181	.00000	.15000	744.00	.1706	.1205	.1993	.9327	.5709-02	.9441-02	.6470	4.484	551.6
181	.00000	.17500	745.00	.1123	.8100-01	.1359	.9276	.3835-02	.6437-02	.4570	3.434	545.8
181	.00000	.20000	746.00	.7380-01	.5360-01	.9210-01	.9235	.2539-02	.4362-02	.3090	2.213	543.3
181	.00000	.21500	747.00	.6960-01	.5090-01	.8790-01	.9216	.2410-02	.4165-02	.2980	2.072	541.2

DATE 03 JUN 78

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F28)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
181	.00000	.23000	748.00	.4540-01	.3320-01	.5830-01	.9201	.1571-02	.2763-02	.1930	1.433	541.8
181	.00000	.24000	749.00	.4840-01	.3540-01	.6260-01	.9193	.1675-02	.2964-02	.2070	1.563	541.5
181	.00000	.25000	750.00	.2660-01	.1950-01	.3430-01	.9193	.9257-03	.1624-02	.1160	.9380	540.1
181	.00000	.30000	751.00	.5750-01	.4210-01	.7410-01	.9193	.1992-02	.3512-02	.2470	1.625	540.9
181	.00000	.35000	752.00	.5560-01	4100-01	.7110-01	.9193	.1944-02	.3369-02	.2470	1.565	538.1
181	.00000	.40000	753.00	.5650-01	.4180-01	.7220-01	.9193	.1978-02	.3418-02	.2520	1.626	537.6
181	.00000	.50000	754.00	.8680-01	.6290-01	.1133	.9193	.2980-02	.5366-02	.3590	2.355	544.3
181	.00000	.60000	755.00	.6870-01	.5080-01	.8770-01	.9193	.2407-02	.4156-02	.3070	1.976	537.4
181	.00000	.70000	756.00	.8010-01	.5860-01	.1033	.9193	.2774-02	.4894-02	.3430	2.274	541.1
181	.00000	.80000	757.00	.8200-01	.6040+01	.1051	.9193	.2850-02	.4979-02	.3610	2.269	538.8
181	.00000	.90000	758.00	.5380-01	.3960-01	.6900-01	.9193	.1876-02	.3270-02	.2360	1.532	539.1
181	55.000	.22000	759.00	.6250-01	.4570-01	.7920-01	.9213	.2165-02	.3753-02	.2680	1.998	541.2
181	55.000	.25000	760.00	.3220-01	.2370-01	.4140-01	.9195	.1121-02	.1961-02	.1400	1.102	539.8
181	55.000	.27000	761.00	.4210-01	.3060-01	.5470-01	.9195	.1448-02	.2593-02	.1760	1.309	543.6
181	55.000	.30000	762.00	.6110-01	.4470-01	.7880-01	.9195	.2117-02	.3732-02	.2620	1.580	541.2
181	55.000	.32000	763.00	.7980-01	.5820-01	.1033	.9195	.2755-02	.4896-02	.3370	2.000	542.4
181	55.000	.34000	764.00	.8110-01	.5910-01	.1050	.9195	.2802-02	.4973-02	.3440	2.044	542.2
181	55.000	.36000	765.00	.9390-01	.6850-01	.1214	.9195	.3246-02	.5751-02	.3990	2.405	541.9
181	55.000	.38000	766.00	.1225	.8810-01	.1609	.9195	.4172-02	.7624-02	.4930	3.000	546.6
181	55.000	.40000	767.00	.1424	.1015	.1887	.9195	.4809-02	.8940-02	.5570	3.479	549.0
181	67.500	.23000	768.00	.7130-01	.5230-01	.9120-01	.9200	.2477-02	.4322-02	.3090	2.305	540.2
181	67.500	.25000	769.00	.3160-01	.2330-01	.4060-01	.9192	.1102-02	.1923-02	.1390	1.082	539.2
181	67.500	.27000	770.00	.4870-01	.3540-01	.6320-01	.9192	.1676-02	.2996-02	.2040	1.494	543.0
181	67.500	.29000	771.00	.4970-01	.3640-01	.6410-01	.9192	.1724-02	.3035-02	.2140	1.332	540.6
181	67.500	.30000	772.00	.8430-01	.6120-01	.1100	.9192	.2897-02	.5211-02	.3500	2.145	543.9
181	67.500	.31000	773.00	.9320-01	.6750-01	.1216	.9192	.3198-02	.5762-02	.3860	2.343	544.2.
181	67.500	.32000	774.00	.1028	.7450-01	.1340	.9192	.3530-02	.6349-02	.4270	2.571	543.9
181	67.500	.32500	775.00	.1116	.8060-01	.1463	.9192	.3818-02	.6929-02	.4570	2.756	545.3
181	67.500	.33000	776.00	.1274	.9140-01	.1681	.9192	.4332-02	.7964-02	.5100	3.083	547.1
181	67.500	.33500	777.00	.1552	.1103	.2073	.9192	.5223-02	.9818-02	.5990	3.617	550 1
181	67.500	.34000	778.00	.1634	.1152	.2201	.9192	.5457-02	.1042-01	.6150	3.708	552.2
181	67.500	.34500	779.00	.1871	.1305	.2552	.9192	.6182-02	.1209-01	.6800	4.102	555.0
181	67.500	.35000	780.00	.1993	.1383	.2736	.9192	.6553-02	.1296-01	.7120	4.305	556.3
181	67.500	.35500	781.00	.2142	.1469	.2983	.9192	.6959-02	.1413-01	.7360	4.461	559.1
181	67.500	.36000	782.00	.2096	.1452	.2884	.9192	.6878-02	.1366-01	.7440	4.512	556.7
181	67.500	.36500	783.00	.1900	.1337	.2565	.9192	.6332-02	.1215-01	.7100	4.304	552.7
181	67.500	.37000	784.00	.1778	.1260	.2381	.9192	.5970-02	.1128-01	.6810	4.154	550.8
181	67.500	.37500	785.00	.1637	.1161	.2190	.9192	.5499-02	.1038-01	.6280	3.865	550.6
181	67.500	.38000	786.00	.1512	.1076	.2014	.9192	.5097-02	.9541-02	.5880	3.626	549.6
181	67.500	.39000	787.00	.1273	.9140-01	.1677	.9192	.4332-02	.7946-02	.5110	3.169	5-> 8
181	67.500	.50000	789.00	.5100-01	.3720-01	.6620-01	.9192	.1761-02	.3135-02	.2160	1.386	54..
188	67.500	.60000	790.00	.5700-02	.4700-02	.6800-02	.9131	.2084-03	.3063-03	.4200-01	.2770	540.9
188	67.500	.70000	791.00	.1910-01	.1550-01	.2300-01	.9131	.6959-03	.1030-02	.1390	.9800	543.9

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F28)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
188	67.500	.80000	792.00	.2430-01	.1980-01	.2920-01	.9131	.8879-03	.1309-02	.1780	1.123	542.2
188	67.500	.90000	793.00	.7600-02	.6200-02	.9200-02	.9131	.2772-03	.4133-03	.5400-01	.3510	546.8
188	78.000	.27000	794.00	.2620-01	.2130-01	.3130-01	.9133	.9561-03	.1404-02	.1930	1.381	541.1
189	78.000	.29000	795.00	.5220-01	.4200-01	.6330-01	.9141	.1881-02	.2834-02	.3570	2.194	553.2
182	78.000	.30000	796.00	.1365	.9710-01	.1827	.9190	.4601-02	.8659-02	.5290	3.201	549.9
182	78.000	.31000	797.00	.1769	.1225	.2442	.9190	.5809-02	.1158-01	.6280	3.789	556.7
182	78.000	.32000	798.00	.2212	.1493	.3155	.9190	.7077-02	.1495-01	.7240	4.328	562.6
182	78.000	.32500	799.00	.2434	.1629	.3510	.9190	.7721-02	.1664-01	.7760	4.650	564.3
182	78.000	.33000	800.00	.2659	.1775	.3850	.9190	.8413-02	.1825-01	.8410	5.036	564.9
182	78.000	.33500	801.00	.2995	.1978	.4398	.9190	.9375-02	.2085-01	.9180	5.491	566.9
182	78.000	.34000	802.00	.3101	.2050	.4546	.9190	.9719-02	.2155-01	.9530	5.707	566.7
182	78.000	.34500	803.00	.2983	.1990	.4320	.9190	.9436-02	.2048-01	.9430	5.662	564.9
182	78.000	.35000	804.00	.2812	.1911	.3977	.9190	.9057-02	.1886-01	.9390	5.650	561.1
182	78.000	.35500	805.00	.2492	.1723	.3447	.9190	.8167-02	.1634-01	.8790	5.303	557.1
182	78.000	.36000	806.00	.2001	.1398	.2734	.9190	.6626-02	.1296-01	.7300	4.422	554.6
182	78.000	.36500	807.00	.1771	.1241	.2408	.9190	.5884-02	.1141-01	.6540	3.974	553.6
182	78.000	.37000	808.00	.1472	.1044	.1974	.9190	.4947-02	.9360-02	.5650	3.448	550.6
182	78.000	.37500	809.00	.1130	.8090-01	.1500	.9190	.3833-02	.7111-02	.4480	2.735	548.0
182	78.000	.38000	810.00	.9170-01	.6610-01	.1205	.9190	.3135-02	.5715-02	.3740	2.301	545.5
182	78.000	.39000	811.00	.9550-01	.6940-01	.1244	.9190	.3291-02	.5898-02	.4010	2.477	542.9
182	78.000	.40000	812.00	.7870-01	.5740-01	.1022	.9190	.2723-02	.4845-02	.3350	2.069	541.8
188	90.000	.40000-01	985.00	.4724	.3255	.4258	.9621	.1543-01	.2018-01	1.647	10.66	557.6
188	90.000	.50000-01	986.00	.4272	.2978	.3978	.9585	.1412-01	.1885-01	1.548	9.974	554.7
188	90.000	.60000-01	987.00	.3973	.2678	.3788	.9550	.1269-01	.1795-01	1.294	8.449	552.5
188	90.000	.70000-01	988.00	.3655	.2503	.3598	.9517	.1186-01	.1705-01	1.251	8.355	559.0
188	90.000	.80000-01	989.00	.3197	.2202	.3241	.9485	.1043-01	.1536-01	1.113	7.845	557.7
188	90.000	.10000+00	990.00	.2662	.1888	.2835	.9425	.8946-02	.1344-01	1.022	6.657	550.1
188	90.000	.15000	991.00	.1153	.8260-01	.1367	.9363	.3913-02	.6478-02	.4580	3.360	547.4
182	90.000	.20000	813.00	.4670-01	.3450-01	.5980-01	.9192	.1634-02	.2836-02	.2070	1.511	538.2
182	90.000	.24000	814.00	.3660-01	.2690-01	.4710-01	.9187	.1277-02	.2234-02	.1610	1.309	538.6
182	90.000	.27000	816.00	.3700-01	.2710-01	.4800-01	.9187	.1283-02	.2273-02	.1590	1.134	540.8
182	90.000	.29000	817.00	.1489	.1034	.2055	.9187	.4903-02	.9743-02	.5340	3.300	556.0
182	90.000	.30000	818.00	.2543	.1667	.3789	.9187	.7903-02	.1796-01	.7630	4.611	568.3
182	90.000	.31000	819.00	.2898	.1918	.4259	.9187	.9094-02	.2019-01	.8940	5.368	566.5
182	90.000	.32000	820.00	.2995	.1984	.4400	.9187	.9403-02	.2086-01	.9250	5.540	566.4
182	90.000	.32500	821.00	.3137	.2077	.4612	.9187	.9845-02	.2187-01	.9680	5.778	566.5
182	90.000	.33000	822.00	.3480	.2275	.5207	.9187	.1079-01	.2469-01	1.035	6.190	568.8
182	90.000	.32500	823.00	.3997	.2609	.6355	.9187	.1189-01	.3013-01	1.062	6.347	575.5
182	90.000	.34000	824.00	.4417	.2783	.6981	.9187	.1319-01	.3310-01	1.186	7.050	574.9
182	90.000	.34500	825.00	.4958	.3041	.8189	.9187	.1442-01	.3882-01	1.239	7.373	578.8
182	90.000	.35000	826.00	.5840	.3220	1.190	.9187	.1526-01	.5642-01	1.131	6.689	590.7
182	90.000	.36000	828.00	.3601	.2270	.5688	.9187	.1076-01	.2696-01	.9680	5.755	574.9
182	90.000	.36500	829.00	.2361	.1642	.3253	.9187	.7783-02	.1542-01	.8490	5.111	555.7

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F28)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
182	90.000	.37000	830.00	.1315	.9480-01	.1735	.9187	.4493-02	.8225-02	.5350	3.246	545.7
182	90.000	.37500	831.00	.9050-01	.6630-01	.1172	.9187	.3143-02	.5555-02	.3910	2.392	540.4
182	90.000	.38000	832.00	.6700-01	.4940-01	.8620-01	.9187	.2344-02	.4084-02	.2970	1.820	538.0
182	90.000	.39000	833.00	.6560-01	.4840-01	.8430-01	.9187	.2294-02	.3996-02	.2910	1.801	538.0
182	90.000	.40000	834.00	.6320-01	.4640-01	.8160-01	.9187	.2200-02	.3871-02	.2750	1.709	539.6
182	90.000	.50000	835.00	.4510-01	.3300-01	.5830-01	.9187	.1566-02	.2765-02	.1950	1.238	540.1
182	90.000	.60000	836.00	.6200-01	.4590-01	.7940-01	.9187	.2175-02	.3762-02	.2790	1.865	536.7
182	90.000	.70000	837.00	.6040-01	.4420-01	.7840-01	.9187	2095-02	.3717-02	.2590	1.832	541.0
182	90.000	.80000	838.00	.8000-01	.5910-01	.1028	.9187	.2803-02	.4872-02	.3570	2.227	537.5
182	90.000	.90000	839.00	.1061	.7650-01	.1401	.9187	.3625-02	.6643-02	.4310	2.759	545.8
182	112.50	.23000	840.00	.3600-01	.2660-01	.4610-01	.9186	.1263-02	.2186-02	.1620	1.310	536.7
182	112.50	.25000	841.00	.2310-01	.1710-01	.2970-01	.9183	.8116-03	.1409-02	.1040	.8100	536.8
182	112.50	.30000	843.00	.6510-01	.4790-01	.8430-01	.9183	.2269-02	.3995-02	.2850	1.702	539.2
182	112.50	.33000	844.00	.1610	.1151	.2155	.9183	.5456-02	.1022-01	.6360	3.829	548.3
182	112.50	.35000	845.00	.1668	.1195	.2225	.9183	.5665-02	.1055-01	.6640	4.070	547.6
182	112.50	.37000	846.00	.9710-01	.7130-01	.1260	.9183	.3381-02	.5973-02	.4230	2.615	539.7
182	112.50	.40000	847.00	.3140-01	.2350-01	.3980-01	.9183	.1114-02	.1889-02	.1470	.9250	532.5
182	112.50	.45000	848.00	.1920-01	.1440-01	.2430-01	.9183	.6834-03	.1154-02	.9100-01	.5760	531.7
182	112.50	.50000	849.00	.1350-01	.1010-01	.1720-01	.9183	.4775-03	.8174-03	.6200-01	.4030	534.2
182	112.50	.55000	850.00	.8700-02	.6500-02	.1110-01	.9183	.3090-03	.5278-03	.4000-01	.2720	533.8
182	112.50	.60000	851.00	.3410-01	.2540-01	.4340-01	.9183	.1205-02	.2058-02	.1580	1.064	533.9
182	112.50	.65000	852.00	.6950-01	.5150-01	.8930-01	.9183	.2440-02	.4231-02	.3130	2 141	536.5
182	112.50	.70000	853.00	.6160-01	.4510-01	.8010-01	.9183	.2139-02	.3796-02	.2660	1.873	540.5
182	112.50	.75000	854.00	.5300-01	.3920-01	.6820-01	.9183	.1857-02	.3233-02	.2370	1.543	537.3
182	112.50	.80000	855.00	.6530-01	.4840-01	.8380-01	.9183	.2293-02	.3972-02	.2950	1.927	536.3
182	112.50	.90000	856.00	.5120-01	.3740-01	.6680-01	.9183	.1773-02	.3168-02	.2190	1.423	541.5
182	125.40	.84000	857.00	.5630-01	.4140-01	.7280-01	.9183	.1963-02	.3453-02	.2470	1.534	538.9
182	125.40	.85000	858.00	.5970-01	.4400-01	.7710-01	.9183	.2087-02	.3654-02	.2640	1.650	538.1
182	125.40	.86000	859.00	.5230-01	.3880-01	.6720-01	.9183	.1839-02	.3185-02	.2370	1.490	536.2
182	125.40	.87000	860.00	.4820-01	.3570-01	.6200-01	.9183	.1691-02	.2938-02	.2160	1.367	536.8
182	125.40	.88000	861.00	.4640-01	.3430-01	.5990-01	.9183	.1626-02	.2837-02	.2070	1.307	537.5
182	125.40	.89000	862.00	.5050-01	.3710-01	.6550-01	.9183	.1759-02	.3104-02	.2200	1.398	539.5
182	125.40	.90000	863.00	.4430-01	.3250-01	.5760-01	.9183	.1540-02	.2731-02	.1920	1.224	540.2
182	125.40	.91000	864.00	.3360-01	.2460-01	.4390-01	.9183	.1164-02	.2082-02	.1440	1.046	541.6
182	125.40	.92600	865.00	.6690-01	.4770-01	.9000-01	.9183	.2261-02	.4265-02	.2610	1.892	549.2
182	129.30	.80000	866.00	.4060-01	.3030-01	.5190-01	.9183	.1436-02	.2460-02	.1880	1.186	534.2
182	129.30	.81000	867.00	.4300-01	.3200-01	.5500-01	.9183	.1518-02	.2608-02	.1970	1.240	534.9
182	129.30	.82000	868.00	.4320-01	.3210-01	.5520-01	.9183	.1523-02	.2619-02	.1980	1.243	535.0
182	129.30	.83000	869.00	.4760-01	.3510-01	.6140-01	.9183	.1664-02	.2910-02	.2110	1.328	538.0
182	135.00	.40000-01	870.00	.4160	.2880	.3997	.9546	.1365-01	.1895-01	1.475	9.440	556.8
182	135.00	.50000-01	671.00	.4297	.2994	.4255	.9511	.1419-01	.2017-01	1.555	9.901	555.2
182	135.00	.60000-01	872.00	.3304	.2252	.3373	.9478	.1067-01	.1599-01	1.114	7.346	560.5
182	135.00	.70000-01	873.00	.3003	.2067	.3156	.9446	.9797-02	.1496-01	1.044	7.063	558.2

(IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F28)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
182	135.00	.10000+00	875.00	.2215	.1591	.2484	.9362	.7543-02	.1178-01	.8900	5.838	546.9
182	135.00	.15000	876.00	.1207	.8780-01	.1478	.9256	.4162-02	.7006-02	.5070	3.718	543.0
182	135.00	.20000	877.00	.5640-01	.4190-01	.7140-01	.9195	.1985-02	.3386-02	.2570	1.740	535.5
182	135.00	.35000	878.00	.4300-01	.3210-01	.5480-01	.9183	.1523-02	.2596-02	.2000	1.252	533.4
182	135.00	.40000	879.00	.5840-01	.4330-01	.7490-01	.9183	.2053-02	.3551-02	.2640	1.685	536.0
182	135.00	.50000	880.00	.1580-01	.1180-01	.2020-01	.9183	.5578-03	.9583-03	.7200-01	.5010	534.9
182	135.00	.55000	881.00	.3910-01	.2900-01	.5030-01	.9183	.1375-02	.2383-02	.1770	1.182	536.4
.82	135.00	.60000	882.00	.7430-01	.5470-01	.9610-01	.9183	.2592-02	.4556-02	.3270	2.204	538.8
182	135.00	.65000	883.00	.7360-01	.5410-01	.9540-01	.9183	.2566-02	.4522-02	.3220	2.208	539.2
182	135.00	.70000	884.00	.4510-01	.3330-01	.5830-01	.9183	.1578-02	.2764-02	.2000	1.426	538.2
182	135.00	.75000	885.00	.5440-01	.4010-01	.7030-01	.9183	.1902-02	.3335-02	.2410	1.522	538.4
182	135.00	.80000	886.00	.5750-01	.4270-01	.7370-01	.9183	.2025-02	.3495-02	.2620	1.653	535.7
188	135.00	.84000	887.00	.8090-01	.6500-01	.9760-01	.9150	.2908-02	.4368-02	.5480	3.434	552.3
188	135.00	.85000	888.00	.5920-01	.4360-01	.7640-01	.9183	.2068-02	.3621-02	.2620	1.666	537.9
188	135.00	.86000	889.00	.4650-01	.3470-01	.5930-01	.9183	.1642-02	.2809-02	.2150	1.366	533.7
188	135.00	.87000	890.00	.4410-01	.3290-01	.5630-01	.9183	.1558-02	.2667-02	.2030	1.301	533.9
188	135.00	.89000	892.00	.6600-01	.4860-01	.8540-01	.9183	.2301-02	.4046-02	.2900	1.892	538.5
188	135.00	.90000	893.00	.6220-01	.4550-01	.8110-01	.9183	.2155-02	.3843-02	.2660	1.757	540.8
188	135.00	.91000	894.00	.3470-01	.2500-01	.4440-01	.9183	.1186-02	.2105-02	.1480	1.080	540.0
188	135.00	.92600	895.00	.9130-01	.6470-01	.1233	.9183	.3068-02	.5842-02	.3510	2.547	550.0
188	135.00	.95000	896.00	.4320-01	.3220-01	.5530-01	.9183	.1524-02	.2618-02	.1980	1.438	534.6
188	142.30	.42000	897.00	.7940-01	.5880-01	.1019	.9183	.2789-02	.4828-02	.3580	2.317	535.9
188	142.30	.43500	898.00	.1004	.7400-01	.1296	.9183	.3509-02	.6142-02	.4440	2.788	537.8
188	142.30	.45000	899.00	.8490-01	.6280-01	.1092	.9183	.2977-02	.5176-02	.3800	2.501	36.6
188	142.30	.50000	900.00	.3740-01	.2780-01	.4800-01	.9183	.1317-02	.2274-02	.1700	1.138	535.4
188	142.30	.60000	901.00	.1290	.9500-01	.1669	.9183	.4504-02	.7908-02	.5680	3.788	538.3
188	142.30	.70000	902.00	.5520-01	.4080-01	.7090-01	.9183	.1935-02	.3362-02	.2480	1.698	536.5
188	142.30	.80000	903.00	.6510-01	.4870-01	.8280-01	.9183	.2309-02	.3926-02	.3040	1.949	532.6
188	142.30	.87000	904.00	.4690-01	.3470-01	.6030-01	.9183	.1643-02	.2857-02	.2100	1.334	536.6
188	154.98	.42000	905.00	.1219	.8880-01	.1596	.9183	.4210-02	.7563-02	.5150	3.332	541.9
188	154.98	.43500	906.00	.1521	.1098	.2010	.9183	.5206-02	.9528-02	.6230	4.045	544.7
188	154.98	.45000	907.00	.1025	.7580-01	.1321	.9183	.3590-02	.6258-02	.4570	2.997	537.1
188	154.98	.50000	908.00	.6710-01	.4950-01	.8660-01	.9183	.2346-02	.4104-02	.2970	2.137	537.6
188	154.98	.93500	913.00	.1897	.1268	.2767	.9183	.6009-02	.1311-01	.6020	4.338	564.2
188	154.98	.94500	914.00	.1466	.1008	.2060	.9183	.4775-02	.9762-02	.5070	3.632	558.1
188	157.50	.80000-01	919.00	.2456	.1752	.2701	.9387	.8304-02	.1280-01	.9620	6.562	548.5
188	157.50	.20000	922.00	.4910-01	.3680-01	.6210-01	.9188	.1743-02	.2944-02	.2300	1.547	532.1
188	157.50	.42000	923.00	.1043	.7670-01	.1353	.9183	.3635-02	.6410-02	.4560	2.985	539.0
188	157.50	.43500	924.00	.1247	.9120-01	.1626	.9183	.4320-02	.7703-02	.5340	3.504	540.8
188	157.50	.45000	925.00	.1114	.8170-01	.1447	.9183	.3874-02	.6856-02	.4830	3.203	539.6
188	157.50	.85000	926.00	.4400-01	.3280-01	.5620-01	.9183	.1553-02	.2666-02	.2020	1.315	534.3
188	157.50	.86000	927.00	.3250-01	.2400-01	.4170-01	.9183	.1140-02	.1978-02	.1460	.9510	536.3
188	157.50	.87000	928.00	.3800-01	.2800-01	.4900-01	.9183	.1329-02	.2324-02	.1690	1.102	537.5

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F28)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
188	157.50	.88000	929.00	.6630-01	.4850-01	.8640-01	.9183	.2299-02	.4092-02	.2850	1.869	540.5
188	157.50	.89000	930.00	.9620-01	.6970-01	.1267	.9183	.3305-02	.6003-02	.3990	2.633	543.6
188	157.50	.90000	931.00	.7250-01	.5210-01	.9630-01	.9183	.2470-02	.4563-02	.2920	1.971	546.1
188	157.50	.91000	932.00	.2220-01	.1600-01	.2950-01	.9183	.7581-03	.1396-02	.9000-01	.6590	545.6
188	157.50	.92600	933.00	.1081	.7510-01	.1499	.9183	.3558-02	.7104-02	.3870	2.809	555.7
188	163.12	.41500	934.00	.9200-01	.6780-01	.1189	.9183	.3214-02	.5636-02	.4060	2.645	538.1
188	163.12	.42000	935.00	.1089	.7980-01	.1416	.9183	.3783-02	.6710-02	.4710	3.091	539.9
188	163.12	.43000	937.00	.1348	.9680-01	.1796	.9183	.4586-02	.8514-02	.5400	3.541	546.7
188	163.12	.44000	938.00	.1613	.1155	.2153	.9183	.5474-02	.1020-01	.6410	4.194	547.3
188	163.12	.44500	939.00	.1476	.1053	.1980	.9183	.4991-02	.9385-02	.5790	3.839	548.5
188	163.12	.45000	940.00	.1501	.1073	.2008	.9183	.5086-02	.9514-02	.5930	3.937	547.8
188	163.12	.50000	941.00	.9110-01	.6600-01	.1201	.9183	.3127-02	.5689-02	.3770	2.563	543.9
188	163.12	.60000	942.00	.8660-01	.6420-01	.1113	.9183	.3041-02	.5273-02	.3900	2.529	536.1
188	163.12	.70000	943.00	.4430-01	.3290-01	.5680-01	.9183	.1560-02	.2690-02	.2010	1.392	535.2
188	163.12	.80000	944.00	.4080-01	.3060-01	.5180-01	.9183	.1450-02	.2456-02	.1920	1.264	531.8
188	168.00	.35000	945.00	.4330-01	.3240-01	.5500-01	.9183	.1538-02	.2608-02	.2030	1.299	532.1
188	168.00	.36000	946.00	.4380-01	.3280-01	.5560-01	.9183	.1555-02	.2633-02	.2060	1.321	531.8
188	168.00	.37000	947.00	.3980-01	.2980-01	.5050-01	.9183	.1414-02	.2395-02	.1870	1.203	531.9
188	168.00	.37500	948.00	.4230-01	.3170-01	.5370-01	.9183	.1500-02	.2547-02	.1980	1.273	532.3
188	168.00	.38500	950.00	.4290-01	.3210-01	.5460-01	.9183	.1522-02	.2588-02	.2010	1.304	532.5
188	168.00	.39000	951.00	.5320-01	.3960-01	.6780-01	.9183	.1879-02	.3214-02	.2450	1.602	533.8
188	168.00	.39500	952.00	.5870-01	.4370-01	.7520-01	.9183	.2069-02	.3565-02	.2680	1.722	535.0
188	168.00	.40000	953.00	.7030-01	.5210-01	.9020-01	.9183	.2469-02	.4276-02	.3170	2.074	535.9
188	168.00	.40500	954.00	.7780-01	.5730-01	.1006	.9183	.2716-02	.4770-02	.3420	2.243	538.3
188	169.00	.41000	955.00	.9030-01	.6610-01	.1175	.9183	.3135-02	.5569-02	.3890	2.548	540.2
188	168.00	.41500	956.00	.1085	.7900-01	.1420	.9183	.3745-02	.6731-02	.4580	3.006	542.0
188	168.00	.42000	957.00	.1243	.8990-01	.1642	.9183	.4260-02	.7781-02	.5110	3.357	544.4
188	168.00	.42500	958.00	.1173	.8540-01	.1536	.9183	.4047-02	.7281-02	.4940	3.253	542.2
188	168.00	.43000	959.00	.1737	.1217	.2383	.9183	.5769-02	.1129-01	.6400	4.175	553.4
188	168.00	.44000	960.00	.2231	.1564	.3056	.9183	.7414-02	.1448-01	.8240	5.393	553.2
188	168.00	.44500	961.00	.2151	.1502	.2965	.9183	.7117-02	.1405-01	.7830	5.118	554.4
188	168.00	.45000	962.00	.2203	.1536	.3039	.9183	.7281-02	.1440-01	.7990	5.257	554.6
188	168.00	.45500	963.00	.2091	.1466	.2866	.9183	.6950-02	.1358-01	.7730	5.084	553.2
188	168.00	.46000	964.00	.2101	.1478	.2870	.9183	.7002-02	.1360-01	.7830	5.188	552.5
188	168.00	.47000	965.00	.1738	.1233	.2348	.9183	.5843-02	.1113-01	.6680	4.440	550.:
188	168.00	.48000	966.00	.1399	.1003	.1867	.9183	.4753-02	.8847-02	.5570	3.746	547.1
188	168.00	.49000	967.00	.9320-01	.6800-01	.1218	.9183	.3222-02	.5774-02	.3960	2.667	541.6
188	168.00	.85000	968.00	.3830-01	.2850-01	.4900-01	.9183	.1352-02	.2321-02	.1760	1.148	534.3
188	168.00	.86000	969.00	.2940-01	.2170-01	.3800-01	.9183	.1026-02	.1803-02	.1290	.8450	538.4
188	168.00	.87000	970.00	.3680-01	.2690-01	.4810-01	.9183	.1275-02	.2278-02	.1570	1.028	541.1
188	168.00	.88000	971.00	.1121	.8110-01	.1480	.9183	.3844-02	.7014-02	.4620	3.025	544.3
188	168.00	.89000	972.00	.1407	.1009	.1877	.9183	.4782-02	.8896-02	.5610	3.727	547.0
188	168.00	.90000	973.00	.8140-01	.5780-01	.1098	.9183	.2740-02	.5205-02	.3140	2.133	543.8

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RVTF28)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
188	168.00	.91000	974.00	.2550-01	.1820-01	.3430-01	.9183	.8624-03	.1625-02	.1000+00	.7270	548.8
188	168.00	.92600	975.00	.1043	.7130-01	.1475	.9183	.3379-02	.6992-02	.3550	2.556	559.3
188	168.00	.95000	976.00	.8740-01	.6460-01	.1126	.9183	.3061-02	.5336-02	.3900	2.819	537.1
188	180.00	.20000-01	982.00	.1065	.7890-01	.1036	.9540	.3741-02	.4911-02	.4800	3.356	536.0
188	180.00	.25000-01	983.00	.1510	.1113	.1489	.9520	.5274-02	.7054-02	.6660	4.622	538.1
188	180.00	.30000-01	984.00	.3093	.2202	.3083	.9504	.1044-01	.1461-01	1.204	8.259	549.0
180	180.00	.40000-01	600.00	.3266	.2275	.3296	.9490	.1078-01	.1562-01	1.182	7.567	555.2
180	180.00	.50000-01	601.00	.3602	.2523	.3743	.9456	.1196-01	.1774-01	1.327	8.526	553.8
180	180.00	.60000-01	602.00	.3037	.2077	.3265	.9424	.9844-02	.1547-01	1.035	6.651	559.6
180	180.00	.70000-01	603.00	.2424	.1690	.2668	.9395	.8008-02	.1264-01	.8790	5.972	555.0
180	180.00	.80000-01	604.00	.2313	.1628	.2604	.9367	.7713-02	.1234-01	.8650	5.614	552.6
180	180.00	.10000+00	605.00	.1644	.1177	.1923	.9317	.5578-02	.9115-02	.6520	4.680	547.8
180	180.00	.15000	606.00	.8550-01	.6230-01	.1074	.9226	.2952-02	.5089-02	.3620	2.635	542.3
180	180.00	.20000	607.00	.3950-01	.2930-01	.5050-01	.9185	.1390-02	.2394-02	.1900	1.179	535.5
180	180.00	.21000	608.00	.2930-01	.2180-01	.3750-01	.9183	.1031-02	.1775-02	.1340	.9290	535.1
180	180.00	.22000	609.00	.2180-01	.1620-01	.2790-01	.9183	.7678-03	.1321-02	.1000+00	.7450	535.1
180	180.00	.30000	610.00	.3460-01	.2540-01	.4480-01	.9183	.1205-02	.2125-02	.1510	1.038	539.4
180	180.00	.35000	611.00	.4150-01	.3060-01	.5340-01	.9183	.1452-02	.2531-02	.1850	1.237	537.4
180	180.00	.36000	612.00	.3820-01	.2830-01	.4920-01	.9133	.1340-02	.2332-02	.1710	1.155	537.2
180	180.00	.37000	613.00	.3930-01	.2900-01	.5070-01	.9183	.1373-02	.2402-02	.1740	1.175	538.0
180	180.00	.37500	614.00	.4280-01	.3160-01	.5530-01	.9183	.1497-02	.2620-02	.1900	1.281	538.0
180	180.00	.38000	615.00	.4110-01	.3030-01	.5310-01	.9183	.1436-02	.2518-02	.1820	1.225	538.4
180	180.00	.38500	616.00	.4290-01	.3160-01	.5570-01	.9183	.1495-02	.2638-02	.1880	1.265	539.3
180	180.00	.39000	617.00	.5190-01	.3800-01	.6760-01	.9183	.1800-02	.3202-02	.2230	1.501	540.7
180	180.00	.39500	618.00	.5620-01	.4090-01	.7360-01	.9183	.1939-02	.3486-02	.2370	1.603	542.4
180	180.00	.40000	619.00	.6220-01	.4500-01	.8220-01	.9183	.2131-02	.3897-02	.2550	1.714	544 3
180	180.00	.40500	620.00	.7210-01	.5180-01	.9600-01	.9183	.2453-02	.4548-02	.2890	1.944	546.9
180	180.00	.41000	621.00	.9630-01	.6830-01	.1303	.9183	.3236-02	.6174-02	.3690	2.478	550.6
180	180.00	.41500	622.00	.1204	.8420-01	.1655	.9183	.3989-02	.7845-02	.4410	2.942	554.3
180	180.00	.42500	624.00	.1857	.1252	.2679	.9183	.5933-02	.1269-01	.6050	4.022	562.8
180	180.00	.43000	625.00	.2416	.1595	.3587	.9183	.7558-02	.1700-01	.7390	4.918	567.0
180	180.00	.44000	626.00	.3356	.2146	.5221	.9183	.1017-01	.2474-01	.9380	6.224	572.5
180	180.00	.44500	627.00	.3386	.2202	.5137	.9183	.1044-01	.2435-01	.9920	6.652	569.7
180	180.00	.45000	628.00	.2796	.1881	.4042	.9183	.8912-02	.1916-01	.9050	6.089	563.2
180	180.00	.45500	629.00	.2080	.1444	.2883	.9183	.6845-02	.1366-01	.7450	5.108	555.9
180	180.00	.46000	630.00	.1685	.1194	.2279	.9183	.5660-02	.1080-01	.6460	4.333	550.7
180	180.00	.47000	631.00	.1043	.7510-01	.1384	.9183	.3561-02	.6556-02	.4230	2.846	545.9
180	180.00	.48000	632.00	.4340-01	.3140-01	.5720-01	.9183	.1490-02	.2709-02	.1800	1.219	544.0
180	180.00	.49000	633.00	.6550-01	.4750-01	.8610-01	.9183	.2252-02	.4081-02	.2730	1.866	543.6
180	180.00	.50000	634.00	.6700-01	.4840-01	.8840-01	.9183	.2296-02	.4190-02	.2760	1.931	544.6
180	180.00	.55000	635.00	.1170	.8340-01	.1571	.9183	.3953-02	.7445-02	.4580	3.037	549.0
180	180.00	.60000	636.00	.9460-01	.6900-01	.1237	.9183	.3269-02	.5863-02	.4010	2.594	542.0
180	180.00	.65000	637.00	.8800-01	.6450-01	.1145	.9183	.3055-02	.5424-02	.3800	2.466	540.4

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT - DEG. R /SEC	TW DEG. R
180	180.00	.70000	638.00	.5020-01	.3680-01	.6530-01	.9183	.1743-02	.3095-02	.2170	1.489	540.4
180	180.00	.75000	639.00	.3250-01	.2390-01	.4210-01	.9183	.1130-02	.1995-02	.1420	.9170	539.5
180	180.00	.80000	640.00	.4720-01	.3440-01	.6160-01	.9183	.1631-02	.2919-02	.2010	1.262	541.7
180	180.00	.85000	641.00	.4410-01	.3180-01	.5820-01	.9183	.1509-02	.2759-02	.1810	1.145	544.9
180	180.00	.86000	642.00	.4730-01	.3390-01	.6300-01	.9183	.1606-02	.2987-02	.1890	1.210	547.3
180	180.00	.87000	643.00	.6620-01	.4700-01	.8930-01	.9183	.2227-02	.4232-02	.2550	1.643	551.1
180	180.00	.88000	644.00	.1190	.8320-01	.1635	.9183	.3944-02	.7747-02	.4360	2.827	554.
180	180.00	.89000	645.00	.1174	.8120-01	.1636	.9183	.3850-02	.7753-02	.4150	2.720	556.
180	180.00	.90000	646.00	.6120-01	.4230-01	.8540-01	.9183	.2007-02	.4046-02	.2160	1.446	557.
180	180.00	.92600	648.00	.9270-01	.6170-01	.1362	.9183	.2922-02	.6454-02	.2900	2.095	565.5
180	180.00	.95000	649.00	.3520-01	.2580-01	.4590-01	.9183	.1222-02	.2177-02	.1510	1.096	541.0
180	191.25	.35000	650.00	.5040-01	.3710-01	.6520-01	.9183	.1760-02	.3090-02	.2220	1.499	538.5
180	191.25	.36000	651.00	.4660-01	.3430-01	.6030-01	.9183	.1624-02	.2855-02	.2050	1.384	538.8
180	191.25	.37000	652.00	.4720-01	.3460-01	.6130-01	.9183	.1641-02	.2903-02	.2050	1.383	539.8
180	191.25	.37500	653.00	.5000-01	.3660-01	.6500-01	.9183	.1736-02	.3082-02	.2160	1.459	540.5
180	191.25	.38000	654.00	.4930-01	.3610-01	.6430-01	.9183	.1711-02	.3047-02	.2120	1.433	540.9
180	191.25	.38500	655.00	.4980-01	.3640-01	.6520-01	.9183	.1723-02	.3088-02	.2120	1.430	541.9
180	191.25	.39000	656.00	.5710-01	.4150-01	.7500-01	.9183	.1966-02	.3554-02	.2390	1.614	543.2
180	191.25	.39500	657.00	.5750-01	.4150-01	.7620-01	.9183	.1965-02	.3610-02	.2340	1.580	545.5
180	191.25	.40000	658.00	.6520-01	.4680-01	.8680-01	.9183	.2216-02	.4115-02	.2610	1.764	547.0
180	191.25	.40500	659.00	.7670-01	.5470-01	.1030	.9183	.2592-02	.4882-02	.3030	2.028	549.0
180	191.25	.41000	660.00	.8930-01	.6350-01	.1204	.9183	.3009-02	.5707-02	.3460	2.326	549.9
180	191.25	.41500	661.00	.1099	.7760-01	.1492	.9183	.3678-02	.7072-02	.4160	2.791	551.6
180	191.25	.42000	662.00	.1478	.1022	.2061	.9183	.4844-02	.9768-02	.5220	3.500	557.0
180	191.25	.42500	663.00	.1874	.1275	.2669	.9183	.6040-02	.1265-01	.6280	4.216	560.8
180	191.25	.43000	664.00	.2512	.1632	.3815	.9183	.7734-02	.1808-01	.7340	4.953	569.8
180	191.25	.44000	665.00	.3029	.1980	.4561	.9183	.9385-02	.2161-01	.9010	6.043	568.8
180	191.25	.45000	666.00	.2329	.1617	.3229	.9183	.7664-02	.1530-01	.8340	5.630	556.0
180	191.25	.45500	667.00	.2219	.1555	.3044	.9183	.7367-02	.1443-01	.8180	5.528	553.8
180	191.25	.46000	668.00	.1874	.1320	.2555	.9183	.6254-02	.1211-01	.7030	4.767	552.4
180	191.25	.47000	669.00	.1393	.9940-01	.1869	.9183	.4711-02	.8857-02	.5470	3.727	548.7
180	191.25	.48000	670.00	.1001	.7140-01	.1344	.9183	.3393-02	.6369-02	.3920	2.671	548.9
180	191.25	.49000	671.00	.1173	.8340-01	.1581	.9183	.3952-02	.7491-02	.4540	3.087	549.8
180	191.25	.50000	672.00	.1566	.1090	.2165	.9183	.5165-02	.1026-01	.5650	3.909	555.4
180	191.25	.60000	673.00	.1003	.7310-01	.1313	.9183	.3466-02	.6220-02	.4250	2.732	542.1
180	191.25	.70000	674.00	.1412	.9990-01	.1913	.9183	.4735-02	.9065-02	.5380	3.654	551.1
180	191.25	.85000	676.00	.7490-01	.5390-01	.9340-01	.9183	.2555-02	.4710-02	.3030	1.918	546.0
180	191.25	.86000	677.00	.5950-01	.4270-01	.7940-01	.9183	.2022-02	.3761-02	.2390	1.519	547.3
180	191.25	.87000	678.00	.7070-01	.5030-01	.9520-01	.9183	.2386-02	.4509-02	.2750	1.772	549.5
180	191.25	.89000	679.00	.1130	.7930-01	.1546	.9183	.3759-02	.7326-02	.4190	2.726	553.2
180	191.25	.89000	680.00	.1130	.7860-01	.1567	.9183	.3719-02	.7427-02	.4040	2.656	555.0
180	191.25	.90000	681.00	.7660-01	.5280-01	.1074	.9183	.2501-02	.5092-02	.2870	1.790	558.0
180	191.25	.91000	682.00	.1330-01	.9300-02	.1840-01	.9183	.4394-03	.8710-03	.4800-01	.3500	555.2

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(R77F28)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
180	191.25	.92600	683.00	.4540-01	.3090-01	.6470-01	.9183	.1464-02	.3067-02	.1520	1.106	560.8
180	191.25	.95000	684.00	.2770-01	.2030-01	.3610-01	.9183	.9619-03	.1712-02	.1190	.8640	540.8
180	197.00	.33000	685.00	.4510-01	.3320-01	.5840-01	.9183	.1574-02	.2767-02	.1980	1.339	538.8
180	197.00	.34000	686.00	.4660-01	.3430-01	.6050-01	.9183	.1625-02	.2865-02	.2040	1.376	539.3
180	197.00	.35000	687.00	.4840-01	.3560-01	.6270-01	.9183	.1686-02	.2972-02	.2120	1.429	539.2
180	197.00	.36000	688.00	.5220-01	.3820-01	.6790-01	.9183	.1811-02	.3215-02	.2250	1.519	540.4
180	197.00	.37000	689.00	.4790-01	.3510-01	.6230-01	.9183	.1662-02	.2950-02	.2070	1.394	540.4
180	197.00	.37500	690.00	.6220-01	.4530-01	.8140-01	.9183	.2148-02	.3857-02	.2630	1.779	542.2
180	197.00	.50000	691.00	.1984	.1316	.2925	.9183	.6238-02	.1386-01	.6160	4.101	566.0
180	197.00	.60000	692.00	.8930-01	.6500-01	.1170	.9183	.3080-02	.5544-02	.3760	2.432	542.6
180	197.00	.70000	693.00	.2009	.1345	.2926	.9183	.6372-02	.1387-01	.6490	4.305	564.3
180	197.00	.80000	694.00	.4770-01	.3490-01	.6210-01	.9183	.1653-02	.2942-02	.2050	1.292	540.8
180	197.00	.87000	695.00	.4530-01	.3230-01	.6080-01	.9183	.1529-02	.2880-02	.1770	1.127	549.0
180	197.00	.92600	696.00	.2810-01	.1900-01	.4040-01	.9183	.9019-03	.1916-02	.9300-01	.6720	562.1
180	197.00	.95000	697.00	.1411	.1149	.1692	.9136	.5146-02	.7575-02	1.031	7.093	543.2
188	209.80	.15000-01	698.00	.3105	.2197	.3125	.9492	.1041-01	.1480-01	1.184	8.038	551.1
181	209.80	.30000-01	699.00	.3308	.2377	.3458	.9445	.1126-01	.1639-01	1.330	8.455	546.8
181	209.80	.50000-01	699.00	.2634	.1855	.2918	.9394	.8787-02	.1382-01	.9880	6.660	552.5
181	209.80	.70000-01	700.00	.1696	.1232	.1992	.9308	.5838-02	.9397-02	.7100	4.535	543.2
181	209.80	.10000+00	701.00	.7560-01	.5590-01	.9400-01	.9221	.2650-02	.4455-02	.3390	2.435	537.1
181	209.80	.15000	702.00	.3360-01	.2520-01	.4270-01	.9184	.1194-02	.2021-02	.1580	1.052	532.3
181	209.80	.20000	703.00	.5030-01	.3700-01	.6500-01	.9183	.1755-02	.3080-02	.2220	1.577	538.6
181	209.80	.30000	704.00	.5580-01	.4120-01	.7210-01	.9183	.1952-02	.3415-02	.2470	1.701	538.1
181	209.80	.35000	705.00	.7110-01	.5220-01	.9230-01	.9183	.2473-02	.4373-02	.3090	2.133	539.9
181	209.80	.37500	706.00	.1597	.1126	.2172	.9183	.5336-02	.1029-01	.6020	4.111	552.0
181	209.80	.50000	707.00	.1000+00	.7430-01	.1282	.9183	.3518-02	.6073-02	.4540	2.912	535.8
181	209.80	.60000	708.00	.1932	.7510-01	.1354	.9183	.3557-02	.6415-02	.4340	2.770	543.3
181	209.80	.70000	709.00	.3580-01	.2660-01	.4590-01	.9183	.1260-02	.2175-02	.1630	1.019	535.8
181	209.80	.80000	710.00	.6820-01	.5000-01	.8850-01	.9183	.2370-02	.4193-02	.2960	1.877	540.0
181	209.80	.87000	711.00	.5230-01	.3770-01	.6930-01	.9183	.1786-02	.3284-02	.2130	1.547	545.8
181	209.80	.92600	712.00	.1248	.9250-01	.1603	.9183	.4382-02	.7595-02	.5630	3.536	536.5
181	217.70	.15000+0	713.00	.3104	.2249	.3182	.9493	.1065-01	.1507-01	1.224	8.335	550.0
181	217.70	.30000-01	714.00	.3222	.2322	.3365	.9445	.1100-01	.1594-01	1.308	8.540	545.9
181	217.70	.50000-01	715.00	.2656	.1854	.2950	.9385	.8784-02	.1397-01	.9680	6.577	554.7
181	217.70	.70000-01	716.00	.1622	.1188	.1885	.9309	.5626-02	.9930-02	.6990	4.548	540.6
181	217.70	.10000+00	717.00	.7400-01	.5460-01	.9220-01	.9221	.2586-02	.4363-02	.3280	2.412	538.0
181	217.70	.15000	718.00	.3720-01	.2790-01	.4710-01	.9184	.1321-02	.2231-02	.1760	1.195	531.7
181	217.70	.20000	719.00	.5300-01	.3910-01	.6860-01	.9183	.1850-02	.3249-02	.2330	1.677	538.7
181	217.70	.30000	720.00	.7010-01	.5150-01	.9080-01	.9183	.2440-02	.4302-02	.3060	2.129	539.4
181	217.70	.35000	721.00	.7150-01	.5230-01	.9300-01	.9183	.2478-02	.4407-02	.3070	2.137	540.8
181	217.70	.37500	722.00	.1176	.8450-01	.1563	.9183	.4002-02	.7406-02	.4730	3.268	546.7
181	217.70	.50000	723.00	.5410-01	.4030-01	.6920-01	.9183	.1908-02	.3280-02	.2480	1.594	535.0
181	217.70	.60000	724.00	.5340-01	.3940-01	.6900-01	.9183	.1866-02	.3269-02	.2360	1.507	538.3
181	217.70	.70000	725.00									

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F28)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
181	217.70	.80000	726.00	.3480-01	.2590-01	.4460-01	.9183	.1225-02	.2112-02	.1580	1.000	535.6
181	217.70	.87000	727.00	.5060-01	.3720-01	.6560-01	.9183	.1762-02	.3108-02	.2210	1.419	539.4
181	217.70	.92600	728.00	.7040-01	.5020-01	.9460-01	.9183	.2380-02	.4479-02	.2760	2.003	549.0

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = 5.000 BETA = -3.000 GRIT = 4.000 RN/L = 5.000

•••TEST CONDITIONS•••

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
119	5.500	5.005	5.010	3.000	-31.00	178.0	.1910	739.0	104.8	4.051	2759.	.1531-03
148	5.500	4.992	4.990	3.000	-31.00	177.9	.1910	740.0	105.0	4.048	2761.	.1528-03
149	5.500	4.958	5.010	3.000	-31.00	177.7	.1910	743.0	105.4	4.045	2767.	.1521-03
150	5.500	4.952	5.010	3.000	-31.00	178.0	.1910	744.0	105.5	4.050	2769.	.1520-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
119	.8441-07	.4476-01	.1360-01
148	.8452-07	.4475-01	.1361-01
149	.8486-07	.4476-01	.1365-01
150	.8500-07	.4480-01	.1366-01

•••TEST DATA•••

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
149	.00000	.30000-02	730.00	.4420	.3397	.3894	.9724	.1520-01	.1743-01	2.440	16.46	582.6
149	.00000	.10300-01	731.00	.1564	.1271	.1868	.9146	.5692-02	.8363-02	1.131	7.796	544.5
149	.00000	.15000-01	732.00	.1230	.1004	.1462	.9146	.4493-02	.6545-02	.9100	6.207	540.7
149	.00000	.25000-01	734.00	.4920	.3750	.4447	.9670	.1679-01	.1991-01	2.624	17.50	586.8
149	.00000	.30000-01	735.00	.7349	.5355	.6594	.9654	.2397-01	.2952-01	3.282	21.81	586.2
149	.00000	.40000-01	737.00	.5535	.4062	.4908	.9639	.1818-01	.2197-01	2.833	18.11	537.3
149	.00000	.45000-01	738.00	.5260	.4035	.4901	.9621	.1806-01	.2194-01	2.881	18.73	583.6
149	.00000	.60000-01	739.00	.3959	.2994	.3792	.9568	.1340-01	.1697-01	2.044	13.44	590.6
149	.00000	.70000-01	740.00	.3596	.2735	.3519	.9534	.1224-01	.1575-01	1.901	12.60	587.8
149	.00000	.80000-01	741.00	.2971	.2274	.2968	.9502	.1018-01	.1329-01	1.611	11.49	584.8
149	.00000	.10000+00	742.00	.2626	.2045	.2720	.9439	.9153-02	.1218-01	1.536	10.12	575.3
149	.00000	.12500	743.00	.1955	.1507	.2122	.9367	.6748-02	.9500-02	1.095	7.830	580.8
149	.00000	.15000	744.00	.1544	.1206	.1737	.9303	.5399-02	.7773-02	.9160	6.284	573.5
149	.00000	.17500	745.00	.9940-01	.7880-01	.1146	.9246	.3527-02	.5130-02	.6320	4.708	564.0
149	.00000	.20000	746.00	.7250-01	.5800-01	.8520-01	.9199	.2596-02	.3816-02	.4830	3.438	557.0
149	.00000	.21500	747.00	.5800-01	.4660-01	.6900-01	.9176	.2084-02	.3086-02	.3930	2.713	554.6

DATE 03 JUN 75 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F28)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
149	.00000	.23000	748.00	.4720-01	.3790-01	.5670-01	.9157	.1698-02	.2536-02	.3220	2.375	553.3
149	.00000	.24000	749.00	.3890-01	.3130-01	.4700-01	.9146	.1402-02	.2102-02	.2670	2.008	552.6
149	.00000	.25000	750.00	.1620-01	.1310-01	.1950-01	.9146	.5869-03	.8711-03	.1140	.9230	548.6
149	.00000	.30000	751.00	.5180-01	.4180-01	.6240-01	.9146	.1872-02	.2792-02	.3600	2.360	550.6
149	.00000	.35000	752.00	.4810-01	.3890-01	.5770-01	.9146	.1741-02	.2585-02	.3380	2.136	548.8
149	.00000	.40000	753.00	.4680-01	.3790-01	.5620-01	.9146	.1695-02	.2514-02	.3300	2.123	548.2
149	.00000	.50000	754.00	.7120-01	.5720-01	.8600-01	.9146	.2561-02	.3851-02	.4850	3.164	553.7
149	.00000	.60000	755.00	.6740-01	.5440-01	.8110-01	.9146	.2434-02	.3630-02	.4690	3.000	550.5
149	.00000	.70000	756.00	.5990-01	.4810-01	.7250-01	.9146	.2152-02	.3246-02	.4050	2.665	554.8
149	.00000	.80000	757.00	.6040-01	.4870-01	.7290-01	.9146	.2178-02	.3261-02	.4160	2.601	552.0
149	.00000	.90000	758.00	.3990-01	.3230-01	.4790-01	.9146	.1444-02	.2154-02	.2810	1.814	548.7
149	55.000	.22000	759.00	.5650-01	.4530-01	.6730-01	.9172	.2030-02	.3013-02	.3830	2.839	554.4
149	55.000	.25000	760.00	.2100-01	.1700-01	.2520-01	.9148	.7595-03	.1126-02	.1480	1.155	548.8
149	55.000	.27000	761.00	.2410-01	.1940-01	.29[illegible]-01	.9148	.8686-03	.1306-02	.1640	1.217	554.1
149	55.000	.30000	762.00	.5580-01	.4500-01	.6710-01	.9148	.2016-02	.3003-02	.3880	2.330	550.5
149	55.000	.32000	763.00	.7480-01	.6020-01	.9040-01	.9148	.2694-02	.4045-02	.5110	3.011	553.6
149	55.000	.34000	764.00	.7830-01	.6270-01	.9500-01	.9148	.2807-02	.4251-02	.5230	3.087	556.8
149	55.000	.36000	765.00	.7660-01	.6140-01	.9270-01	.9148	.2749-02	.4151-02	.5150	3.084	555.7
149	55.000	.38000	766.00	.1063	.8450-01	.1300	.9148	.3782-02	.5819-02	.6840	4.124	562.3
149	55.000	.40000	767.00	.1066	.8420-01	.1311	.9148	.3771-02	.5869-02	.6680	4.132	565.0
149	67.500	.23000	768.00	.6140-01	.4940-01	.7370-01	.9155	.2211-02	.3301-02	.4210	3.121	552.8
149	67.500	.25000	769.00	.2130-01	.1730-01	.2560-01	.9145	.7726-03	.1145-02	.1510	1.173	547.8
149	67.500	.27000	770.00	.2860-01	.2300-01	.3460-01	.9145	.1030-02	.1548-02	.1960	1.422	553.2
149	67.500	.29000	771.00	.2850-01	.2300-01	.3430-01	.9145	.1032-02	.1533-02	.2010	1.241	548.8
149	67.500	.30000	772.00	.7310-01	.5870-01	.8850-01	.9145	.2627-02	.3963-02	.4950	3.014	554.6
149	67.500	.31000	773.00	.9400-01	.7510-01	.1143	.9145	.3363-02	.5118-02	.6240	3.759	557.7
149	67.500	.32000	774.00	.1071	.8560-01	.1305	.9145	.3832-02	.5841-02	.7080	4.232	558.3
149	67.500	.32500	775.00	.1194	.9500-01	.1459	.9145	.4254-02	.6533-02	.7750	4.641	560.9
149	67.500	.33000	776.00	.1240	.9830-01	.1523	.9145	.4401-02	.6817-02	.7890	4.731	563.8
149	67.500	.33500	777.00	.1472	.1158	.1823	.9145	.5184-02	.8161-02	.9030	5.401	568.9
149	67.500	.34000	778.00	.1582	.1239	.1970	.9145	.5548-02	.8819-02	.9510	5.676	571.8
149	67.500	.34500	779.00	.1708	.1327	.2146	.9145	.5941-02	.9606-02	.9900	5.913	575.5
149	67.500	.35000	780.00	.1757	.1361	.2216	.9145	.6092-02	.9920-02	1.003	6.003	578.4
149	67.500	.35500	781.00	.1920	.1471	.2452	.9145	.6585-02	.1097-01	1.047	6.261	584.2
149	67.500	.36000	782.00	.1822	.1399	.2320	.9145	.6262-02	.1038-01	1.003	6.002	583.0
149	67.500	.36500	783.00	.1643	.1273	.2072	.9145	.5699-02	.9273-02	.9400	5.624	578.2
149	67.500	.37000	784.00	.1481	.1155	.1852	.9145	.5170-02	.8292-02	.8730	5.262	574.3
149	67.500	.37500	785.00	.1362	.1067	.1695	.9145	.4776-02	.7587-02	.8190	4.986	571.6
149	67.500	.38000	786.00	.1207	.9470-01	.1500	.9145	.4241-02	.6712-02	.7320	4.472	570.5
150	67.500	.39000	787.00	.1023	.8070-01	.1264	.9145	.3512-02	.5560-02	.6750	3.893	567.4
150	67.500	.40000	788.00	.8350-01	.6640-01	.1024	.9145	.2972-02	.4583-02	.5370	3.332	562.3
150	67.500	.50000	789.00	.4250-01	.3410-01	.5160-01	.9145	.1527-02	.2311-02	.2860	1.828	555.7
150	67.500	.60000	790.00	.4800-01	.3850-01	.5940-01	.9145	.1721-02	.2612-02	.3210	2.095	556.7

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
150	67.500	.70000	791.00	.4010-01	.3200-01	.4900-01	.9145	.1431-02	.2192-02	.2620	1.840	559.9
150	67.500	.80000	792.00	.4270-01	.3420-01	.5190-01	.9145	.1530-02	.2321-02	.2850	1.785	556.6
150	67.500	.90000	793.00	.1510-01	.1210-01	.1830-01	.9145	.5410-03	.8196-03	.1010	.6490	556.1
150	78.000	.27000	794.00	.2500-01	.2020-01	.3020-01	.9141	.9027-03	.1353-02	.1730	1.232	551.2
150	78.000	.29000	795.00	.5220-01	.4200-01	.6330-01	.9141	.1881-02	.2834-02	.3570	2.194	553.2
150	78.000	.30000	796.00	.1455	.1155	.1790	.9141	.5173-02	.8021-02	.9320	5.599	564.2
150	78.000	.31000	797.00	.1921	.1493	.2420	.9141	.6687-02	.1084-01	1.116	6.663	577.4
150	78.000	.32000	798.00	.2219	.1697	.2869	.9141	.7560-02	.1285-01	1.174	6.929	589.1
150	78.000	.32500	799.00	.2404	.1817	.3130	.9141	.8141-02	.1402-01	1.241	7.338	591.8
150	78.000	.33000	800.00	.2489	.1877	.3252	.9141	.8407-02	.1457-01	1.271	7.507	593.1
150	78.000	.33500	801.00	.2694	.2022	.3539	.9141	.9059-02	.1586-01	1.351	7.975	595.1
150	78.000	.34000	802.00	.2675	.2021	.3486	.9141	.9052-02	.1562-01	1.377	8.138	592.2
150	78.000	.34500	803.00	.2732	.2066	.3557	.9141	.9253-02	.1593-01	1.411	8.365	591.8
150	78.000	.35000	804.00	.2556	.1947	.3298	.9141	.8722-02	.1478-01	1.361	8.083	588.2
150	78.000	.35500	805.00	.2450	.1892	.3108	.9141	.8477-02	.1392-01	1.386	8.258	580.8
150	78.000	.36000	806.00	.2048	.1590	.2582	.9141	.7122-02	.1157-01	1.185	7.092	577.9
150	78.000	.36500	807.00	.1766	.1378	.2214	.9141	.6175-02	.9918-02	1.046	6.287	574.9
150	78.000	.37000	808.00	.1486	.1169	.1845	.9141	.5237-02	.8266-02	.9140	5.522	569.8
150	78.000	.37500	809.00	.1214	.9610-01	.1496	.9141	.4304-02	.6704-02	.7690	4.654	565.7
150	78.000	.38000	810.00	.1035	.8250-01	.1268	.9141	.3694-02	.5681-02	.6750	4.120	561.5
150	78.000	.39000	811.00	.8340-01	.6680-01	.1015	.9141	.2992-02	.4547-02	.5590	3.428	557.4
150	78.000	.40000	812.00	.6730-01	.5410-01	.8170-01	.9141	.2422-02	.3661-02	.4580	2.810	555.3
119	90.000	.40000-01	985.00	.4517	.3467	.4251	.9603	.1552-01	.1903-01	2.468	15.79	580.1
119	90.000	.50000-01	986.00	.4114	.3175	.3955	.9568	.1421-01	.1770-01	2.300	14.65	577.3
119	90.000	.60000-01	987.00	.3683	.2772	.3604	.9534	.1241-01	.1613-01	1.853	11.94	589.8
119	90.000	.70000-01	988.00	.3632	.2750	.3632	.9500	.1231-01	.1626-01	1.872	12.33	587.0
119	90.000	.80000-01	989.00	.3090	.2354	.3154	.9468	.1054-01	.1412-01	1.635	11.37	584.0
119	90.000	.10000+00	990.00	.2513	.1952	.2656	.9407	.8738-02	.1189-01	1.446	9.311	573.6
119	90.000	.15000	991.00	.1299	.1017	.1484	.9276	.4551-02	.6642-02	.7740	5.617	569.1
150	90.000	.20000	813.00	.4300-01	.3490-01	.5160-01	.9145	.1564-02	.2310-02	.3080	2.240	547.2
150	90.000	.24000	814.00	.3390-01	.2750-01	.4090-01	.9137	.1233-02	.1830-02	.2430	1.963	547.5
150	90.000	.27000	816.00	.2310-01	.1880-01	.2780-01	.9137	.8407-03	.1246-02	.1660	1.180	546.9
150	90.000	.29000	817.00	.1538	.1206	.1923	.9137	.5403-02	.8617-02	.9310	5.710	572.1
150	90.000	.30000	818.00	.2708	.2015	.3608	.9137	.9028-02	.1617-01	1.314	7.825	598.8
150	90.000	.31000	819.00	.3020	.2256	.4005	.9137	.1011-01	.1794-01	1.487	8.790	597.2
150	90.000	.32000	820.00	.3002	.2250	.3964	.9137	.1008-01	.1776-01	1.498	8.837	595.7
150	90.000	.32500	821.00	.2983	.2245	.3918	.9137	.1006-01	.1755-01	1.514	8.918	593.8
150	90.000	.33000	822.00	.3095	.2326	.4072	.9137	.1042-01	.1824-01	1.561	9.215	594.5
150	90.000	.33500	923.00	.3515	.2616	.4685	.9137	.1172-01	.2099-01	1.706	10.08	598.8
150	90.000	.34000	824.00	.4348	.3176	.5940	.9137	.1423-01	.2661-01	1.965	11.50	606.2
150	90.000	.34500	825.00	.4478	.3209	.6284	.9137	.1437-01	.2815-01	1.887	11.04	613.0
150	90.000	.35000	826.00	.5385	.3602	.8409	.9137	.1614-01	.3767-01	1.814	10.51	631.9
150	90.000	.36000	828.00	.4112	.2981	.5674	.9137	.1336-01	.2542-01	1.808	10.57	608.9

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F28)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
150	90.000	.36500	829.00	.2327	.1806	.2945	.9137	.8091-02	.1319-01	1.344	7.999	578.2
150	90.000	.37000	830.00	.1470	.1169	.1810	.9137	.5235-02	.8109-02	9490	5.706	563.0
150	90.000	.37500	831.00	.9250-01	.7430-01	.1124	.9137	.3329-02	.5038-02	.6310	3.828	554.9
150	90.000	.38000	832.00	.6830-01	.5530-01	.8240-01	.9137	.2476-02	.3692-02	.4830	2.940	549.2
150	90.000	.39000	833.00	.6950-01	.5630-01	.8360-01	.9137	.2524-02	.3747-02	.4970	3.060	547.5
150	90.000	.40000	834.00	.6440-01	.5210-01	.7770-01	.9137	.2333-02	.3482-02	.4550	2.806	549.5
150	90.000	.50000	835.00	.3670-01	.2970-01	.4420-01	.9137	.1331-02	.1979-02	.2610	1.650	548.1
150	90.000	.60000	836.00	.4120-01	.3340-01	.4960-01	.9137	.1495-02	.2224-02	.2930	1.949	548.4
150	90.000	.70000	837.00	.4080-01	.3280-01	.4960-01	.9137	.1471-02	.2223-02	.2790	1.958	554.4
150	90.000	.80000	838.00	.6750-01	.5440-01	.8180-01	.9137	.2436-02	.3663-02	.4670	2.897	552.5
150	90.000	.90000	839.00	.8380-01	.6730-01	.1021	.9137	.3014-02	.4574-02	.5680	3.612	556.0
150	112.50	.23000	840.00	.3210-01	.2610-01	.3840-01	.9135	.1170-02	.1721-02	.2350	1.900	543.2
150	112.50	.30000	843.00	.6440-01	.5210-01	.7800-01	.9131	.2334-02	.3494-02	.4550	2.703	549.4
150	112.50	.33000	844.00	.1656	.1318	.2044	.9131	.5905-02	.9156-02	1.076	6.437	562.1
150	112.50	.35000	845.00	.1683	.1341	.2074	.9131	.6007-02	.9294-02	1.099	6.685	561.4
150	112.50	.37000	846.00	.1011	.8160-01	.1227	.9131	.3654-02	.5498-02	.7050	4.333	551.5
150	112.50	.40000	847.00	.3750-01	.3070-01	.4480-01	.9131	.1374-02	.2008-02	.2810	1.759	539.5
150	112.50	.45000	848.00	.1570-01	.1290-01	.1880-01	.9131	.5788-03	.8412-03	.1200	.7580	536.9
150	112.50	.50000	849.00	.1300-01	.1070-01	.1550-01	.9131	.4782-03	.6962-03	.9900-01	.6380	537.6
150	112.50	.55000	850.00	.1040-01	.8500-02	.1240-01	.9131	.3806-03	.5547-03	.7800-01	.5260	538.3
150	112.50	.60000	851.00	.2720-01	.2230-01	.3260-01	.9131	.9979-03	.1459-02	.2040	1.374	539.6
150	112.50	.65000	852.00	.3260-01	.2670-01	.3910-01	.9131	.1194-02	.1752-02	.2430	1.655	541.1
150	112.50	.70000	853.00	.6010-01	.4880-01	.7240-01	.9131	.2186-02	.3243-02	.4340	3.050	545.7
150	112.50	.75000	854.00	.4930-01	.4010-01	.5930-01	.9131	.1797-02	.2659-02	.3590	2.328	544.8
150	112.50	.80000	855.00	.6370-01	.5170-01	.7690-01	.9131	.2318-02	.3443-02	.4590	2.986	546.3
150	112.50	.90000	856.00	.3110-01	.2510-01	.3790-01	.9131	.1124-02	.1697-02	.2150	1.392	552.8
150	125.40	.84000	857.00	.6370-01	.5130-01	.7770-01	.9130	.2296-02	.3480-02	.4370	2.692	553.9
150	125.40	.85000	858.00	.6800-01	.5480-01	.8290-01	.9130	.2454-02	.3713-02	.4690	2.903	553.3
150	125.40	.86000	859.00	.6090-01	.4920-01	.7390-01	.9130	.2203-02	.3311-02	.4270	2.668	550.7
150	125.40	.87000	860.00	.6220-01	.5030-01	.7550-01	.9130	.2252-02	.3382-02	.4360	2.737	550.6
150	125.40	.88000	861.00	.6200-01	.5010-01	.7530-01	.9130	.2244-02	.3371-02	.4350	2.727	550.5
150	125.40	.89000	862.00	.4980-01	.4010-01	.6070-01	.9130	.1796-02	.2717-02	.3430	2.159	553.4
150	125.40	.90000	863.00	.4870-01	.3920-01	.5930-01	.9130	.1755-02	.2658-02	.3350	2.120	553.6
150	125.40	.91000	864.00	.2900-01	.2330-01	.3540-01	.9130	.1044-02	.1585-02	.1980	1.434	554.6
150	125.40	.92600	865.00	.4460-01	.3510-01	.5590-01	.9130	.1571-02	.2502-02	.2730	1.957	570.4
150	129.30	.81000	867.00	.3730-01	.3020-01	.4510-01	.9130	.1354-02	.2013-02	.2670	1.666	547.5
150	129.30	.82000	868.00	.3720-01	.3020-01	.4500-01	.9130	.1351-02	.2017-02	.2650	1.654	548.2
150	129.30	.83000	869.00	.4550-01	.3660-01	.5550-01	.9130	.1641-02	.2484-02	.3130	1.955	553.6
150	135.00	.40000-01	870.00	.4139	.3226	.4072	.9529	.1445-01	.1824-01	2.438	15.45	575.6
150	135.00	.50000-01	871.00	.4102	.3218	.4115	.9494	.1442-01	.1843-01	2.490	15.72	571.6
150	135.00	.60000-01	872.00	.3255	.2516	.3332	.9461	.1127-01	.1493-01	1.847	12.06	580.4
150	135.00	.70000-01	873.00	.3013	.2338	.3143	.9428	.1048-01	.1408-01	1.742	11.67	578.1
150	135.00	.10000+00	875.00	.2081	.1656	.2266	.9340	.7420-02	.1015-01	1.354	8.817	561.9

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F28)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
150	135.00	.15000	876.00	.1061	.8520-01	.1228	.9223	.3819-02	.5501-02	.7220	5.261	555.3
150	135.00	.20000	877.00	.4870-01	.3970-01	.5790-01	.9149	.1780-02	.2596-02	.3590	2.424	542.7
150	135.00	.35000	878.00	.3670-01	.3000-01	.4390-01	.9130	.1343-02	.1967-02	.2740	1.710	540.1
150	135.00	.40000	879.00	.4830-01	.3940-01	.5790-01	.9130	.1764-02	.2595-02	.3570	2.267	542.1
150	135.00	.50000	880.00	.2430-01	.1980-01	.2910-01	.9130	.8891-03	.1302-02	.1810	1.250	540.2
150	135.00	.55000	881.00	.3330-01	.2720-01	.4000-01	.9130	.1219-02	.1790-02	.2480	1.653	541.3
150	135.00	.60000	882.00	.6030-01	.4890-01	.7280-01	.9130	.2191-02	.3259-02	.4330	2.909	546.8
150	135.00	.65000	883.00	.8180-01	.6590-01	.9940-01	.9130	.2953-02	.4455-02	.5670	3.861	552.2
150	135.00	.70000	884.00	.5250-01	.4250-01	.6360-01	.9130	.1905-02	.2848-02	.3720	2.645	548.8
150	135.00	.75000	885.00	.5440-01	.4410-01	.6570-01	.9130	.1976-02	.2945-02	.3890	2.449	547.6
150	135.00	.80000	886.00	.4890-01	.3960-01	.5910-01	.9130	.1776-02	.2646-02	.3500	2.197	547.4
150	135.00	.84000	887.00	.4720-01	.3750-01	.5840-01	.9130	.1680-02	.2614-02	.3040	1.898	563.1
119	135.00	.85000	888.00	.8080-01	.6340-01	.1012	.9130	.2840-02	.4529-02	.4900	3.072	566.7
119	135.00	.86000	889.00	.6670-01	.5300-01	.8230-01	.9130	.2374-02	.3685-02	.4290	2.696	558.4
119	135.00	.87000	890.00	.6170-01	.4920-01	.7590-01	.9130	.2203-02	.3396-02	.4030	2.551	556.1
119	135.00	.88000	891.00	.5430-01	.4320-01	.6690-01	.9130	.1934-02	.2995-02	.3510	2.232	557.6
119	135.00	.89000	892.00	.3810-01	.3020-01	.4710-01	.9130	.1352-02	.2109-02	.2420	1.564	560.1
119	135.00	.90000	893.00	.3260-01	.2580-01	.4060-01	.9130	.1155-02	.1819-02	.2030	1.328	563.0
119	135.00	.91000	894.00	.1960-01	.1550-01	.2430-01	.9130	.6939-03	.1090-02	.1230	.8890	562.0
119	135.00	.92600	895.00	.7070-01	.5460-01	.9040-01	.9130	.2444-02	.4045-02	.3970	2.843	576.7
119	135.00	.95000	896.00	.4830-01	.3890-01	.5900-01	.9130	.1739-02	.2639-02	.3280	2.364	550.6
119	142.30	.42000	897.00	.5550-01	.4490-01	.6730-01	.9130	.2008-02	.3012-02	.3880	2.494	546.1
119	142.30	.43500	898.00	.8380-01	.6760-01	.1019	.9130	.3024-02	.4562-02	.5770	3.602	548.4
119	142.30	.45000	899.00	.8290-01	.6670-01	.1010	.9130	.2984-02	.4521-02	.5650	3.688	550.0
119	142.30	.50000	900.00	.4230-01	.3420-01	.5130-01	.9130	.1533-02	.2296-02	.2970	1.977	545.6
119	142.30	.60000	901.00	.9970-01	.8020-01	.1215	.9130	.3591-02	.5438-02	.6800	4.509	549.8
119	142.30	.70000	902.00	.6900-01	.5530-01	.8440-01	.9130	.2475-02	.3779-02	.4610	3.136	552.9
119	142.30	.80000	903.00	.6880-01	.5510-01	.8420-01	.9130	.2467-02	.3770-02	.4590	2.908	553.1
119	142.30	.87000	904.00	.7500-01	.5940-01	.9310-01	.9130	.2660-02	.4167-02	.4730	2.967	561.3
119	154.98	.42000	905.00	.1065	.8520-01	.1306	.9130	.3815-02	.5847-02	.7060	4.537	554.0
119	154.98	.43500	906.00	.1227	.9790-01	.1509	.9130	.4384-02	.6757-02	.8030	5.184	556.0
119	154.98	.45000	907.00	.9110-01	.7330-01	.1111	.9130	.3281-02	.4975-02	.6200	4.036	550.2
119	154.98	.50000	908.00	.8520-01	.6860-01	.1039	.9130	.3069-02	.4652-02	.5800	4.143	550.1
119	154.98	.93500	913.00	.2243	.1648	.3062	.9130	.7377-02	.1371-01	1.027	7.274	599.9
119	154.98	.94500	914.00	.4510-01	.3440-01	.5860-01	.9130	.1540-02	.2621-02	.2400	1.696	583.3
119	157.50	.80000-01	919.00	.2357	.1848	.2543	.9367	.8272-02	.1133-01	1.416	9.560	568.0
119	157.50	.20000	922.00	.3900-01	.3160-01	.4700-01	.9139	.1416-02	.2102-02	.2770	1.845	543.8
119	157.50	.42000	923.00	.9450-01	.7580-01	.1157	.9130	.3394-02	.5178-02	.6330	4.121	552.5
119	157.50	.43500	924.00	.1035	.8310-01	.1265	.9130	.3719-02	.5664-02	.6960	4.545	551.9
119	157.50	.45000	925.00	.9610-01	.7730-01	.1172	.9130	.3459-02	.5244-02	.6540	4.308	550.2
119	157.50	.85000	926.00	.4010-01	.3200-01	.4940-01	.9130	.1433-02	.2210-02	.2620	1.688	556.2
119	157.50	.86000	927.00	.3560-01	.2840-01	.4380-01	.9130	.1271-02	.1960-02	.2320	1.500	556.3
119	157.50	.87000	928.00	.3560-01	.2830-01	.4400-01	.9130	.1267-02	.1970-02	.2280	1.475	559.0

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F28)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
119	157.50	.88000	929.00	.3690-01	.2920-01	.4590-01	.9130	.1307-02	.2056-02	.2310	1.497	562.7
119	157.50	.89000	930.00	.7640-01	.5970-01	.9630-01	.9130	.2674-02	.4311-02	.4530	2.948	569.7
119	157.50	.90000	931.00	.6210-01	.4820-01	.7890-01	.9130	.2157-02	.3531-02	.3560	2.369	573.9
119	157.50	.91000	932.00	.1390-01	.1080-01	.1770-01	.9130	.4834-03	.7932-03	.8000-01	.5740	574.5
119	157.50	.92000	933.00	.5690-01	.4280-01	.7510-01	.9130	.1917-02	.3361-02	.2870	2.048	589.5
119	163.12	.41500	934.00	.9660-01	.7760-01	.1179	.9130	.3474-02	.5276-02	.6540	4.232	550.9
119	163.12	.42000	935.00	.1119	.8950-01	.1374	.9130	.4008-02	.6148-02	.7400	4.825	554.4
119	163.12	.43000	937.00	.1422	.1126	.1765	.9130	.5010-02	.7902-02	.8950	5.827	561.6
119	163.12	.44000	938.00	.1560	.1233	.1940	.9130	.5518-02	.8685-02	.9730	6.316	562.8
119	163.12	.44500	939.00	.1496	.1178	.1871	.9130	.5271-02	.8376-02	.9140	6.014	565.7
119	163.12	.45000	940.00	.1549	.1220	.1934	.9130	.5462-02	.8657-02	.9520	6.264	564.9
119	163.12	.50000	941.00	.9720-01	.7700-01	.1208	.9130	.3445-02	.5406-02	.6110	4.110	561.9
119	163.12	.60000	942.00	.9180-01	.7340-01	.1127	.9130	.3287-02	.5045-02	.6070	3.897	554.6
119	163.12	.70000	943.00	.5480-01	.4410-01	.6680-01	.9130	.1975-02	.2991-02	.3740	2.562	549.9
119	163.12	.80000	944.00	.3560-01	.2860-01	.4350-01	.9130	.1280-02	.1946-02	.2410	1.566	551.2
119	168.00	.35000	945.00	.3840-01	.3110-01	.4640-01	.9130	.1393-02	.2075-02	.2730	1.730	543.5
119	168.00	.36000	946.00	.3740-01	.3040-01	.4520-01	.9130	.1359-02	.2022-02	.2670	1.698	542.9
119	168.00	.37000	947.00	.3720-01	.3020-01	.4500-01	.9130	.1351-02	.2012-02	.2640	1.689	543.4
119	168.00	.37500	948.00	.3870-01	.3140-01	.4680-01	.9130	.1404-02	.2094-02	.2740	1.750	543.9
119	168.00	.38500	950.00	.3820-01	.3100-01	.4610-01	.9130	.1388-02	.2064-02	.2720	1.760	542.9
119	168.00	.39000	951.00	.4560-01	.3690-01	.5520-01	.9130	.1652-02	.2472-02	.3200	2.079	545.3
119	168.00	.39500	952.00	.5790-01	.4670-01	.7020-01	.9130	.2092-02	.3144-02	.4020	2.568	547.0
119	168.00	.40000	953.00	.6460-01	.5210-01	.7860-01	.9130	.2331-02	.3516-02	.4450	2.891	548.3
119	168.00	.40500	954.00	.8150-01	.6550-01	.9940-01	.9130	.2931-02	.4449-02	.5520	3.595	550.7
119	168.00	.41000	955.00	.8550-01	.6860-01	.1046	.9130	.3071-02	.4683-02	.5730	3.730	552.4
119	168.00	.41500	956.00	.1050	.8400-01	.1289	.9130	.3759-02	.5768-02	.6940	4.523	554.5
119	168.00	.42000	957.00	.1225	.9760-01	.1511	.9130	.4368-02	.6766-02	.7920	5.171	557.7
119	168.00	.42500	958.00	.1285	.1024	.1583	.9130	.4585-02	.7085-02	.8350	5.454	556.9
119	168.00	.43000	959.00	.1660	.1293	.2102	.9130	.5786-02	.9407-02	.9660	6.244	572.1
119	168.00	.44000	960.00	.2005	.1564	.2533	.9130	.7001-02	.1134-01	1.177	7.632	571.0
119	168.00	.44500	961.00	.2022	.1572	.2567	.9130	.7037-02	.1149-01	1.168	7.562	573.2
119	168.00	.45000	962.00	.1929	.1501	.2445	.9130	.6718-02	.1094-01	1.119	7.290	572.6
119	168.00	.45500	963.00	.1726	.1346	.2180	.9130	.6027-02	.9756-02	1.014	6.613	570.9
119	168.00	.46000	964.00	.1623	.1265	.2053	.9130	.5661-02	.9188-02	.9480	6.219	571.6
119	168.00	.47000	965.00	.1362	.1067	.1712	.9130	.4775-02	.7665-02	.8150	5.367	568.5
119	168.00	.48000	966.00	.1082	.8510-01	.1352	.9130	.3810-02	.6053-02	.6610	4.402	565.6
119	168.00	.49000	967.00	.9000-01	.7170-01	.1110	.9130	.3208-02	.4971-02	.5820	3.887	557.8
119	168.00	.85000	968.00	.3170-01	.2540-01	.3890-01	.9130	.1136-02	.1740-02	.2100	1.358	554.1
119	168.00	.86000	969.00	.2920-01	.2330-01	.3600-01	.9130	.1044-02	.1610-02	.1910	1.235	556.3
119	168.00	.87000	970.00	.2850-01	.2260-01	.3530-01	.9130	.1013-02	.1578-02	.1820	1.181	559.4
119	168.00	.88000	971.00	.4240-01	.3340-01	.5290-01	.9130	.1494-02	.2368-02	.2600	1.688	564.9
119	168.00	.89000	972.00	.8670-01	.6750-01	.1099	.9130	.3022-02	.4919-02	.5040	3.304	572.4
119	168.00	.90000	973.00	.7510-01	.5790-01	.9630-01	.9130	.2593-02	.4308-02	.4190	2.806	577.6

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
119	168.00	.91000	974.00	.1420-01	.1090-01	.1820-01	.9130	.4897-03	.8126-03	.7900-01	.5690	577.3
119	168.00	.92600	975.00	.1650-01	.1230-01	.2190-01	.9130	.5508-03	.9824-03	.8100-01	.5710	592.8
119	168.00	.95000	976.00	.7490-01	.5990-01	.9190-01	.9130	.2683-02	.4113-02	.4960	3.558	554.2
119	180.00	.20000-01	982.00	.8570-01	.6950-01	.8480-01	.9524	.3109-02	.3795-02	.6060	4.219	544.2
119	180.00	.25000-01	983.00	.1148	.9260-01	.1146	.9504	.4146-02	.5128-02	.7940	5.485	547.6
119	180.00	.30000-01	984.00	.2463	.1944	.2479	.9487	.8703-02	.1110-01	1.528	10.40	563.5
148	180.00	.40000-01	600.00	.3324	.2614	.3374	.9473	.1170-01	.1510-01	2.026	12.89	566.9
148	180.00	.50000-01	601.00	.3606	.2833	.3730	.9439	.1268-01	.1670-01	2.190	13.97	567.4
148	180.00	.60000-01	602.00	.1930	.1497	.2041	.9406	.6698-02	.9134-02	1.104	7.246	575.3
148	180.00	.70000-01	603.00	.1557	.1221	.1672	.9375	.5466-02	.7482-02	.9380	6.334	568.4
148	180.00	.80000-01	604.00	.1470	.1160	.1602	.9346	.5190-02	.7168-02	.9100	5.866	564.7
148	180.00	.10000+00	605.00	.1485	.1181	.1662	.9292	.5288-02	.7439-02	.9580	6.830	559.0
148	180.00	.15000	606.00	.7660-01	.6150-01	.9040-01	.9188	.2754-02	.4044-02	.5180	3.760	551.8
148	180.00	.20000	607.00	.3060-01	.2490-01	.3680-01	.9133	.1113-02	.1645-02	.2210	1.444	541.7
148	180.00	.21000	608.00	.2360-01	.1920-01	.2840-01	.9130	.8612-03	.1271-02	.1720	1.191	540.5
148	180.00	.22000	609.00	.1760-01	.1440-01	.2120-01	.9130	.6424-03	.9478-03	.1280	.9580	540.3
148	180.00	.30000	610.00	.2690-01	.2180-01	.3250-01	.9130	.9754-03	.1453-02	.1910	1.309	544.3
148	180.00	.35000	611.00	.3360-01	.2730-01	.4060-01	.9130	.1222-02	.1818-02	.2400	1.601	543.7
148	180.00	.36000	612.00	.3210-01	.2610-01	.3800-01	.9130	.1167-02	.1736-02	.2290	1.544	543.6
148	180.00	.37000	613.00	.3450-01	.2800-01	.4170-01	.9130	.1253-02	.1868-02	.2450	1.651	544.3
148	180.00	.37500	614.00	.3350-01	.2710-01	.4050-01	.9130	.1214-02	.1811-02	.2370	1.597	544.6
148	180.00	.38000	615.00	.3950-01	.3200-01	.4780-01	.9130	.1431-02	.2137-02	.2790	1.875	545.3
148	180.00	.38500	616.00	.4370-01	.3530-01	.5290-01	.9130	.1581-02	.2367-02	.3060	2.059	546.3
148	180.00	.39000	617.00	.5220-01	.4210-01	.6350-01	.9130	.1886-02	.2840-02	.3620	2.422	548.3
148	180.00	.39500	618.00	.6170-01	.4960-01	.7530-01	.9130	.2221-02	.3370-02	.4200	2.822	551.2
148	180.00	.40000	619.00	.7240-01	.5800-01	.8890-01	.9130	.2594-02	.3976-02	.4810	3.208	554.8
148	180.00	.40500	620.00	.8490-01	.6750-01	.1047	.9130	.3023-02	.4687-02	.5480	3.662	558.7
148	180.00	.41000	621.00	.1063	.8400-01	.1324	.9130	.3759-02	.5925-02	.6620	4.412	564.0
148	180.00	.41500	622.00	.1362	.1067	.1713	.9130	.4775-02	.7668-02	.8150	5.399	569.4
148	180.00	.42500	624.00	.1985	.1523	.2558	.9130	.6817-02	.1145-01	1.085	7.147	580.9
148	180.00	.43000	625.00	.2388	.1816	.3114	.9130	.8126-02	.1393-01	1.255	8.274	585.6
148	180.00	.44000	626.00	.2861	.2145	.3797	.9130	.9602-02	.1699-01	1.421	9.340	592.1
148	180.00	.44500	627.00	.2851	.2156	.3744	.9130	.9648-02	.1676-01	1.464	9.729	588.3
148	180.00	.45000	628.00	.2340	.1796	.3015	.9130	.8040-02	.1349-01	1.281	8.541	580.8
148	180.00	.45500	629.00	.1806	.1405	.2289	.9130	.6288-02	.1024-01	1.048	7.126	573.4
148	180.00	.46000	630.00	.1403	.1105	.1754	.9130	.4945-02	.7843-02	.8610	5.730	566.0
148	180.00	.47000	631.00	.8930-01	.7120-01	.1100	.9130	.3186-02	.4925-02	.5810	3.883	557.8
148	180.00	.48000	632.00	.4640-01	.3720-01	.5690-01	.9130	.1664-02	.2545-02	.3100	2.087	554.0
148	180.00	.49000	633.00	.5810-01	.4670-01	.7090-01	.9130	.2092-02	.3174-02	.3950	2.690	551.2
148	180.00	.50000	634.00	.5710-01	.4590-01	.6950-01	.9130	.2056-02	.3112-02	.3900	2.726	550.3
148	180.00	.55000	635.00	.8980-01	.7180-01	.1103	.9130	.3211-02	.4936-02	.5920	3.913	555.8
148	180.00	.60000	636.00	.8410-01	.6760-01	.1028	.9130	.3023-02	.4599-02	.5680	3.654	552.2
148	180.00	.65000	637.00	.8330-01	.6700-01	.1017	.9130	.2999-02	.4550-02	.5660	3.654	551.2

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F28)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
148	180.00	.70000	638.00	.4650-01	.3760-01	.5640-01	.9130	.1681-02	.2525-02	.3240	2.216	547.4
148	180.00	.75000	639.00	.3680-01	.2980-01	.4460-01	.9130	.1335-02	.1996-02	.2600	1.675	545.7
148	180.00	.80000	640.00	.4350-01	.3500-01	.5290-01	.9130	.1568-02	.2367-02	.2990	1.872	549.3
148	180.00	.85000	641.00	.3160-01	.2540-01	.3870-01	.9130	.1135-02	.1731-02	.2120	1.336	553.1
148	180.00	.86000	642.00	.3380-01	.2700-01	.4150-01	.9130	.1207-02	.1855-02	.2230	1.421	555.7
148	180.00	.87000	643.00	.3200-01	.2550-01	.3950-01	.9130	.1140-02	.1768-02	.2070	1.324	558.8
148	180.00	.89000	644.00	.5580-01	.4410-01	.6960-01	.9130	.1972-02	.3117-02	.3460	2.228	564.8
148	180.00	.89000	645.00	.1023	.7970-01	.1295	.9130	.3568-02	.5796-02	.5980	3.884	572.6
148	180.00	.90000	646.00	.6470-01	.5050-01	.8190-01	.9130	.2260-02	.3663-02	.3800	2.520	572.1
148	180.00	.92600	648.00	.3850-01	.2920-01	.5020-01	.9130	.1308-02	.2248-02	.2020	1.442	586.0
148	180.00	.95000	649.00	.3980-01	.3230-01	.4820-01	.9130	.1444-02	.2157-02	.2810	2.035	545.2
148	191.25	.35000	650.00	.3850-01	.3120-01	.4660-01	.9130	.1397-02	.2087-02	.2720	1.830	545.3
148	191.25	.36000	651.00	.3730-01	.3020-01	.4510-01	.9130	.1351-02	.2019-02	.2630	1.773	545.6
148	191.25	.37000	652.00	.3990-01	.3230-01	.4830-01	.9130	.1444-02	.2163-02	.2800	1.882	546.3
148	191.25	.37500	653.00	.4220-01	.3410-01	.5120-01	.9130	.1527-02	.2292-02	.2950	1.988	547.0
148	191.25	.38000	654.00	.4300-01	.3470-01	.5220-01	.9130	.1554-02	.2337-02	.2990	2.012	547.9
148	191.25	.38500	655.00	.4340-01	.3500-01	.5270-01	.9130	.1565-02	.2359-02	.2990	2.015	548.9
148	191.25	.39000	656.00	.5240-01	.4210-01	.6390-01	.9130	.1884-02	.2858-02	.3560	2.396	551.1
148	191.25	.39500	657.00	.5580-01	.4470-01	.6830-01	.9130	.1999-02	.3056-02	.3720	2.499	554.0
148	191.25	.40000	658.00	.6610-01	.5270-01	.8130-01	.9130	.2360-02	.3637-02	.4330	2.911	556.8
148	191.25	.40500	659.00	.7720-01	.6140-01	.9540-01	.9130	.2747-02	.4267-02	.4960	3.336	559.4
148	191.25	.41000	660.00	.8860-01	.7020-01	.1099	.9130	.3144-02	.4917-02	.5610	3.756	561.6
148	191.25	.41500	661.00	.1036	.8190-01	.1289	.9130	.3666-02	.5768-02	.6480	4.318	563.4
148	191.25	.42000	662.00	.1377	.1075	.1739	.9130	.4809-02	.7784-02	.8100	5.393	571.7
148	191.25	.42500	663.00	.1709	.1320	.2184	.9130	.5908-02	.9775-02	.9620	6.405	577.3
148	191.25	.43000	664.00	.2170	.1636	.2860	.9130	.7321-02	.1280-01	1.101	7.356	589.7
148	191.25	.44000	665.00	.2612	.1977	.3428	.9130	.8848-02	.1534-01	1.346	8.943	588.0
148	191.25	.45000	666.00	.2032	.1586	.2567	.9130	.7097-02	.1149-01	1.196	8.012	571.6
148	191.25	.45500	667.00	.1714	.1351	.2138	.9130	.6048-02	.9569-02	1.058	7.111	565.1
148	191.25	.46000	668.00	.1520	.1201	.1892	.9130	.5375-02	.8465-02	.9480	6.395	563.7
148	191.25	.47000	669.00	.1184	.9430-01	.1461	.9130	.4218-02	.6537-02	.7660	5.195	558.6
148	191.25	.48000	670.00	.8780-01	.6990-01	.1083	.9130	.3127-02	.4845-02	.5680	3.852	558.5
148	191.25	.49000	671.00	.9860-01	.7860-01	.1215	.9130	.3517-02	.5439-02	.6410	4.337	557.9
148	191.25	.50000	672.00	.1162	.9190-01	.1445	.9130	.4113-02	.6468-02	.7270	5.014	563.3
148	191.25	.60000	673.00	.9800-01	.7890-01	.1196	.9130	.3525-02	.5354-02	.6340	4.248	551.7
148	191.25	.68000	674.00	.1131	.9000-01	.1395	.9130	.4029-02	.6241-02	.7320	4.952	558.4
148	191.25	.70000	676.00	.6120-01	.4910-01	.7500-01	.9130	.2197-02	.3355-02	.4100	2.583	553.5
148	191.25	.85000	677.00	.4020-01	.3210-01	.4930-01	.9130	.1439-02	.2206-02	.2660	1.695	555.0
148	191.25	.86000	678.00	.4380-01	.3490-01	.5400-01	.9130	.1562-02	.2415-02	.2950	1.827	557.7
148	191.25	.87000	679.00	.7720-01	.6100-01	.9600-01	.9130	.2729-02	.4298-02	.4820	3.115	553.7
148	191.25	.88000	680.00	.9390-01	.7370-01	.1178	.9130	.3299-02	.5271-02	.5680	3.719	568.0
148	191.25	.89000	681.00	.7750-01	.6050-01	.9780-01	.9130	.2711-02	.4375-02	.4590	3.157	570.8
148	191.25	.90000	682.00	.2950-01	.2320-01	.3690-01	.9130	.1037-02	.1652-02	.1790	1.294	567.2
148	191.25	.91000										

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
148	191.25	.92600	683.00	.4590-01	.3550-01	.5870-01	.9130	.1587-02	.2627-02	.2580	1.860	577.4
149	191.25	.95000	684.00	.4430-01	.3590-01	.5360-01	.9130	.1607-02	.2398-02	.3140	2.269	544.9
149	197.00	.33000	685.00	.3520-01	.2850-01	.4250-01	.9130	.1275-02	.1903-02	.2490	1.674	545.0
148	197.00	.34000	686.00	.3440-01	.2790-01	.4170-01	.9130	.1247-02	.1865-02	.2430	1.632	545.5
148	197.00	.35000	687.00	.3290-01	.2670-01	.3990-01	.9130	.1194-02	.1784-02	.2320	1.562	545.5
148	197.00	.36000	688.00	.3970-01	.3210-01	.4820-01	.9130	.1437-02	.2155-02	.2780	1.868	546.8
148	197.00	.37000	689.00	.4130-01	.3340-01	.5010-01	.9130	.1496-02	.2241-02	.2900	1.947	546.4
148	197.00	.50000	691.00	.1584	.1217	.2038	.9130	.5447-02	.9122-02	.8710	5.754	580.3
148	197.00	.60000	692.00	.8330-01	.6680-01	.1019	.9130	.2989-02	.4560-02	.5580	3.589	553.2
148	197.00	.70000	693.00	.1740	.1343	.2228	.9130	.6011-02	.9969-02	.9750	6.510	577.9
148	197.00	.80000	694.00	.5040-01	.4070-01	.6120-01	.9130	.1823-02	.2739-02	.3510	2.307	547.5
148	197.00	.87000	695.00	.4490-01	.3570-01	.5550-01	.9130	.1597-02	.2482-02	.2880	1.826	559.6
148	197.00	.92600	696.00	.3330-01	.2560-01	.4290-01	.9130	.1145-02	.1922-02	.1820	1.313	580.8
148	209.80	.15000-01	697.00	.8280-01	.6710-01	.1001	.9130	.3005-02	.4481 02	.5870	4.035	544.7
149	209.80	.30000-01	699.00	.2562	.2038	.2595	.9475	.9121-02	.1162-01	1.657	11.19	561.5
149	209.80	.50000-01	699.00	.3316	.2631	.3448	.9426	.1178-01	.1544-01	2.117	13.35	563.3
149	209.80	.70000-01	700.00	.2527	.1986	.2731	.9363	.8889-02	.1222-01	1.541	10.30	569.7
149	209.80	.10000+00	701.00	.1741	.1389	.1957	.9282	.6216-02	.8761-02	1.142	7.237	559.3
149	209.80	.15000	702.00	.7510-01	.6070-01	.8850-01	.9181	.2717-02	.3961-02	.5270	3.763	549.3
149	209.80	.20000	703.00	.3180-01	.2590-01	.3810-01	.9131	.1161-02	.1706-02	.2340	1.585	541.2
149	209.80	.30000	704.00	.3860-01	.3140-01	.4660-01	.9130	.1405-02	.2086-02	.2780	1.973	545.1
149	209.80	.35000	705.00	.4590-01	.3560-01	.5290-01	.9130	.1593-02	.2368-02	.3150	2.154	545.5
149	209.80	.37500	706.00	.5220-01	.4220-01	.6320-01	.9130	.1890-02	.2829-02	.3680	2.527	548.3
149	209.80	.50000	707.00	.1096	.8730-01	.1352	.9130	.3907-02	.6050-02	.7130	4.646	560.5
149	209.80	.60000	708.00	.6370-01	.5170-01	.7700-01	.9130	.2315-02	.3445-02	.4560	2.909	546.0
149	209.80	.70000	709.00	.8920-01	.7190-01	.1086	.9130	.3219-02	.4863-02	.6160	3.915	551.8
149	209.80	.80000	710.00	.3360-01	.2500-01	.3680-01	.9130	.1118-02	.1645-02	.2260	1.411	541.2
149	209.80	.87000	711.00	.3890-01	.3150-01	.4710-01	.9130	.1409-02	.2107-02	.2750	1.735	548.1
149	209.80	.92600	712.00	.4880-01	.3900-01	.5980-01	.9130	.1747-02	.2618 02	.3250	2.352	557.0
149	217.70	.15000-01	713.00	.7750-01	.6320-01	.9310-01	.9130	.2830-02	.4166-02	.5710	3.941	541.5
149	217.70	.30000-01	714.00	.2500	.1989	.2532	.9475	.8905-02	.1133-01	1.619	10.94	561.3
149	217.70	.50000-01	715.00	.3146	.2501	.3269	.9427	.1120-01	.1463-01	2.031	13.15	561.7
149	217.70	.70000-01	716.00	.2548	.1989	.2760	.9364	.8903-02	.1235-01	1.507	10.15	573.8
149	217.70	.10000+00	717.00	.1561	.1252	.1750	.9282	.5604-02	.7834-02	1.051	6.784	555.7
149	217.70	.15000	718.00	.7420-01	.5990-01	.8750-01	.9181	.2681-02	.3919-02	.5170	3.773	550.5
149	217.70	.20000	719.00	.3580-01	.2920-01	.4290-01	.9131	.1308-02	.1921-02	.2640	1.788	540.9
149	217.70	.30000	720.00	.4230-01	.3430-01	.5100-01	.9130	.1536-02	.2282-02	.3040	2.173	545.4
149	217.70	.35000	721.00	.6000-01	.4860-01	.7270-01	.9130	.2177-02	.3253-02	.4250	2.947	547.7
149	217.70	.37500	722.00	.6330-01	.5100-01	.7690-01	.9130	.2284-02	.3443-02	.4390	3.034	551.0
149	217.70	.50000	723.00	.7350-01	.5920-01	.8940-01	.9130	.2651-02	.4002-02	.5080	3.502	551.5
149	217.70	.60000	724.00	.5890-01	.4790-01	.7090-01	.9130	.2145-02	.3172-02	.4280	2.744	543.4
149	217.70	.70000	725.00	.4950-01	.4030-01	.5970-01	.9130	.1802-02	.2673-02	.3580	2.275	544.7
149	217.70	.80000	726.00	.1840-01	.1500-01	.2200-01	.9130	.6716-03	.9870-03	.1360	.8560	540.8

(RV7F28)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
149	217.70	.87000	727.00	.3050-01	.2470-01	.3680-01	.9130	.1107-02	.1649-02	.2180	1.391	546.5
149	217.70	.92600	728.00	.4940-01	.3950-01	.6050-01	.9130	.1769-02	.2708-02	.3300	2.384	556.8

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F29)

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = 5.000 BETA = -6.000 GRIT = 4.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
162	4.520	5.073	5.020	6.000	-50.00	96.90	.3270	662.0	130.2	4.671	2527.	.2104-03
163	4.520	5.055	5.020	6.000	-50.00	97.00	.3270	664.0	130.6	4.673	2531.	.2100-03
164	4.520	5.042	5.010	5.900	-50.00	96.90	.3270	665.0	130.7	4.669	2532.	.2095-03
189	4.520	5.059	5.040	6.000	-50.00	97.10	.3270	664.0	130.6	4.678	2531.	.2102-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
162	.1048-06	.4731-01	.1138-01
163	.1051-06	.4734-01	.1140-01
164	.1052-06	.4733-01	.1141-01
189	.1051-06	.4737-01	.1140-01

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
163	.00000	.30000-02	730.00	.4287	.2827	.3430	.9742	.1339-01	.1624-01	1.306	8.877	566.6
163	.00000	.10300-01	731.00	.1841	.1351	.2366	.9193	.6397-02	.1120-01	.7990	5.526	539.2
163	.00000	.15000-01	732.00	.1644	.1216	.2094	.9193	.5759-02	.9915-02	.7360	5.033	536.3
163	.00000	.25000-01	734.00	.5105	.3310	.4247	.9686	.1567-01	.2011-01	1.480	9.953	569.7
163	.00000	.30000-01	735.00	.6960	.4290	.5749	.9669	.2031-01	.2722-01	1.758	11.85	577.5
163	.00000	.40000-01	737.00	.5059	.3354	.4376	.9654	.1588-01	.2071-01	1.565	10.11	565.6
163	.00000	.45000-01	738.00	.4581	.3075	.4044	.9636	.1456-01	.1914-01	1.471	9.661	563.1
163	.00000	.60000-01	739.00	.3818	.2517	.3518	.9583	.1191-01	.1665-01	1.161	7.723	566.7
163	.00000	.70000-01	740.00	.3369	.2242	.3212	.9549	.1061-01	.1520-01	1.054	7.062	564.8
163	.00000	.80000-01	741.00	.3012	.2021	.2965	.9516	.9566-02	.1404-01	.9650	6.960	563.2
163	.00000	.10000+00	742.00	.2678	.1849	.2791	.9455	.8753-02	.1321-01	.9390	6.240	556.9
163	.00000	.12500	743.00	.1923	.1316	.2150	.9386	.6232-02	.1018-01	.6560	4.739	558.9
163	.00000	.15000	744.00	.1700	.1187	.2001	.9326	.5620-02	.9472-02	.6190	4.285	554.0
163	.00000	.17500	745.00	.1116	.7960-01	.1362	.9276	.3767-02	.6447-02	.4360	3.274	548.4
163	.00000	.20000	746.00	.9770-01	.7060-01	.1226	.9235	.3344-02	.5805-02	.4010	2.870	544.3
163	.00000	.21500	747.00	.7360-01	.5340-01	.9380-01	.9216	.2527-02	.4438-02	.3050	2.121	543.2

ORIGINAL PAGE IS
OF POOR QUALITY

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
163	.00000	.23000	748.00	.6420-01	.4650-01	.8290-01	.9201	.2204-02	.3926-02	.2670	1.974	543.2
163	.00000	.24000	749.00	.5300-01	.3840-01	.6910-01	.9193	.1820-02	.3270-02	.2200	1.660	543.2
163	.00000	.25000	750.00	.2650-01	.1940-01	.3430-01	.9193	.9170-03	.1626-02	.1130	.9140	541.3
163	.00000	.30000	751.00	.5760-01	.4190-01	.7460-01	.9193	.1985-02	.3531-02	.2430	1.598	541.7
163	.00000	.35000	752.00	.5830-01	.4270-01	.7500-01	.9193	.2022-02	.3550-02	.2520	1.596	539.7
163	.00000	.40000	753.00	.6020-01	.4420-01	.7740-01	.9193	.2092-02	.3665-02	.2610	1.686	539.3
163	.00000	.45000	754.00	.5310-01	.3880-01	.6850-01	.9193	.1838-02	.3241-02	.2280	1.494	540.3
163	.00000	.50000	754.00	.5310-01	.3880-01	.6850-01	.9193	.2153-02	.3821-02	.2640	1.699	541.4
163	.00000	.60000	755.00	.6240-01	.4550-01	.8070-01	.9193	.2583-02	.4609-02	.3150	2.082	542.3
163	.00000	.70000	756.00	.7300-01	.5460-01	.9740-01	.9193	.2134-02	.3725-02	.2680	1.683	538.7
163	.00000	.80000	757.00	.6130-01	.4510-01	.7870-01	.9193	.1483-02	.2541-02	.1910	1.240	535.5
163	.00000	.90000	758.00	.4220-01	.3130-01	.5370-01	.9193	.2798-02	.4934-02	.3310	2.461	546.0
163	55.000	.22000	759.00	.8220-01	.5910-01	.1042	.9230	.1509-02	.2669-02	.1830	1.436	542.9
163	55.000	.25000	760.00	.4390-01	.3190-01	.5640-01	.9207	.2019-02	.3662-02	.2370	1.764	546.7
163	55.000	.27000	761.00	.5950-01	.4270-01	.7740-01	.9207	.2664-02	.4743-02	.3200	1.928	543.9
163	55.000	.30000	762.00	.7780-01	.5630-01	.1002	.9207	.3249-02	.5832-02	.3870	2.289	545.1
163	55.000	.32000	763.00	.9520-01	.6860-01	.1232	.9207	.3383-02	.6068-02	.4030	2.391	545.1
163	55.000	.34000	764.00	.9910-01	.7150-01	.1282	.9207	.3702-02	.6719-02	.4340	2.611	546.8
163	55.000	.36000	765.00	.1091	.7820-01	.1419	.9207	.4992-02	.9332-02	.5650	3.430	550.8
163	55.000	.38000	766.00	.1492	.1054	.1971	.9207	.5107-02	.9505-02	.5820	3.628	550.2
163	55.000	.40000	767.00	.1523	.1079	.2008	.9207	.1705-02	.3042-02	.2020	1.505	545.5
163	67.500	.23000	768.00	.5000-01	.3600-01	.6430-01	.9215	.1302-02	.2302-02	.1580	1.234	542.5
163	67.500	.25000	769.00	.3780-01	.2750-01	.4860-01	.9205	.2139-02	.3879-02	.2520	1.837	546.4
163	67.500	.27000	770.00	.6290-01	.4520-01	.8190-01	.9205	.2073-02	.3675-02	.2510	1.559	543.0
163	67.500	.29000	771.00	.6030-01	.4380-01	.7760-01	.9205	.3217-02	.5862-02	.3700	2.300	547.1
163	67.500	.30000	772.00	.9490-01	.6790-01	.1238	.9205	.3573-02	.6503-02	.4190	2.538	546.9
163	67.500	.31000	773.00	.1053	.7550-01	.1374	.9205	.4078-02	.7455-02	.4750	2.857	547.6
163	67.500	.32000	774.00	.1204	.8610-01	.1575	.9205	.4477-02	.8290-02	.5140	3.095	549.3
163	67.500	.32500	775.00	.1331	.9460-01	.1751	.9205	.5242-02	.9856-02	.5910	3.567	551.3
163	67.500	.33000	776.00	.1569	.1107	.2082	.9205	.6060-02	.1172-01	.6630	3.992	554.7
163	67.500	.33500	777.00	.1838	.1280	.2475	.9205	.6583-02	.1291-01	.7090	4.268	556.3
163	67.500	.34000	778.00	.2010	.1391	.2726	.9205	.7147-02	.1437-01	.7510	4.522	559.1
163	67.500	.34500	779.00	.2208	.1510	.3036	.9205	.7410-02	.1504-01	.7710	4.658	560.0
163	67.500	.35000	780.00	.2299	.1565	.3177	.9205	.7495-02	.1528-01	.7770	4.701	560.5
163	67.500	.35500	781.00	.2330	.1583	.3228	.9205	.7081-02	.1405-01	.7540	4.559	557.7
163	67.500	.36000	782.00	.2174	.1496	.2969	.9205	.6454-02	.1237-01	.7120	4.315	553.7
163	67.500	.36500	783.00	.1950	.1363	.2613	.9205	.5820-02	.1105-01	.6490	3.956	552.6
163	67.500	.37000	784.00	.1751	.1229	.2335	.9205	.5199-02	.1036-01	.6190	3.805	551.6
163	67.500	.37500	785.00	.1648	.1161	.2188	.9205	.4998-02	.9366-02	.5660	3.489	550.9
163	67.500	.38000	786.00	.1494	.1056	.1978	.9205	.4141-02	.7596-02	.4810	2.976	548.0
163	67.500	.39000	787.00	.1225	.8750-01	.1605	.9205	.4143-02	.7445-02	.4930	3.085	545.1
163	67.500	.40000	788.00	.1214	.8750-01	.1573	.9205	.2030-02	.3595-02	.2460	1.581	542.8
163	67.500	.50000	789.00	.5900-01	.4290-01	.7590-01	.9205	.2004-03	.3063-03	.4200-01	.2770	540.3
183	67.500	.60000	790.00	.5700-02	.4700-02	.6800-02	.9131					

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F29)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
189	67.500	.70000	791.00	.1910-01	.1550-01	.2300-01	.9131	.6959-03	.1030-02	.1390	.9800	543.9
189	67.500	.80000	792.00	.2430-01	.1980-01	.2920-01	.9131	.8879-03	.1309-02	.1780	1.123	542.2
189	67.500	.90000	793.00	.7600-02	.6200-02	.9200-02	.9131	.2772-03	.4133-03	.5400-01	.3510	546.8
189	78.000	.27000	794.00	.2620-01	.2130-01	.3130-01	.9133	.9561-03	.1404-02	.1930	1.381	541.1
189	78.000	.29000	795.00	.5220-01	.4200-01	.6330-01	.9141	.1881-02	.2834-02	.3570	2.194	553.2
164	78.000	.30000	796.00	.1683	.1179	.2258	.9202	.5581-02	.1069-01	.6200	3.745	553.7
164	78.000	.31000	797.00	.2226	.1517	.3087	.9202	.7178-02	.1461-01	.7490	4.507	560.5
164	78.000	.32000	798.00	.2613	.1737	.3735	.9202	.8221-02	.1767-01	.8160	4.871	565.6
164	78.000	.32500	799.00	.2836	.1873	.4088	.9202	.8866-02	.1935-01	.8680	5.197	566.9
164	78.000	.33000	800.00	.3137	.2069	.4531	.9202	.9793-02	.2144-01	.9560	5.723	567.1
164	78.000	.33500	801.00	.3264	.2127	.4792	.9202	.1007-01	.2208-01	.9600	5.741	569.4
164	78.000	.34000	802.00	.3295	.2146	.4840	.9202	.1016-01	.2290-01	.9680	5.788	569.5
164	78.000	.34500	803.00	.3069	.2031	.4415	.9202	.9610-02	.2090-01	.9440	5.667	566.6
164	78.000	.35000	804.00	.2844	.1917	.3997	.9202	.9071-02	.1892-01	.9250	5.561	562.9
164	78.000	.35500	805.00	.2582	.1768	.3561	.9202	.8366-02	.1685-01	.8620	5.310	559.4
164	78.000	.36000	806.00	.2591	.1790	.3533	.9202	.8472-02	.1672-01	.9110	5.511	557.2
164	78.000	.36500	807.00	.1914	.1332	.2590	.9202	.6302-02	.1226-01	.6880	4.177	555.6
164	78.000	.37000	808.00	.1589	.1118	.2123	.9202	.5290-02	.1005-01	.5930	3.613	552.7
164	78.000	.37500	809.00	.1364	.9700-01	.1801	.9202	.4589-02	.8522-02	.5280	3.220	549.8
164	78.000	.38000	810.00	.1126	.8070-01	.1473	.9202	.3818-02	.6973-02	.4480	2.750	547.6
164	78.000	.39000	811.00	.8910-01	.6430-01	.1155	.9202	.3044-02	.5471-02	.3640	2.245	545.2
164	78.000	.40000	812.00	.8940-01	.6480-01	.1155	.9202	.3067-02	.5467-02	.3710	2.288	543.9
189	90.000	.40000-01	985.00	.4138	.2858	.3586	.9672	.1354-01	.1699-01	1.453	9.407	556.8
189	90.000	.50000-01	986.00	.4667	.3205	.4153	.9636	1518-01	.1967-01	1.610	10.35	558.2
189	90.000	.60000-01	987.00	.4643	.3056	.4205	.9600	.1447-01	.1992-01	1.405	9.161	567.0
189	90.000	.70000-01	988.00	.4124	.2756	.3870	.9566	.1305-01	.1833-01	1.307	8.709	564.1
189	90.000	.80000-01	989.00	.3549	.2384	.3438	.9533	.1129-01	.1628-01	1.142	8.026	563.0
189	90.000	.10000+00	990.00	.2950	.2059	.3027	.9471	.9755-02	.1434-01	1.073	6.976	554.2
189	90.000	.15000	991.00	.1812	.1278	.2095	.9339	.6054-02	.9922-02	.6820	4.996	551.5
164	90.000	.20000	813.00	.6320-01	.4570-01	.8150-01	.9206	.2165-02	.3856-02	.2600	1.895	544.5
164	90.000	.24000	814.00	.5220-01	.3770-01	.6790-01	.9197	.1785-02	.3214-02	.2140	1.735	544.8
164	90.000	.27000	816.00	.5310-01	.3830-01	.6950-01	.9197	.1812-02	.3288-02	.2150	1.530	546.0
164	90.000	.29000	817.00	.1941	.1316	.2724	.9197	.6228-02	.1289-01	.8430	3.965	561.6
164	90.000	.30000	818.00	.3177	.2037	.4802	.9197	.9642-02	.2272-01	.8940	5.393	572.1
164	90.000	.31000	819.00	.3211	.2089	.4758	.9197	.9885-02	.2252-01	.9400	5.633	569.7
164	90.000	.32000	820.00	.3240	.2113	.4786	.9197	.9999-02	.2265-01	.9550	5.709	569.3
164	90.000	.32500	821.00	.3422	.2228	.5062	.9197	.1055-01	.2396-01	1.005	5.992	569.5
164	90.000	.33000	822.00	.3698	.2358	.5637	.9197	.1116-01	.2668-01	1.024	6.107	573.1
164	90.000	.33500	823.00	.4318	.2627	.7073	.9197	.1243-01	.3347-01	1.055	6.292	579.9
164	90.000	.34000	824.00	.4732	.2907	.7632	.9197	.1376-01	.3512-01	1.185	7.034	578.6
164	90.000	.34500	825.00	.5440	.3237	.9247	.9197	.1532-01	.4376-01	1.258	7.469	582.7
164	90.000	.35000	826.00	.5719	.3069	1.198	.9197	.1452-01	.5669-01	1.042	6.153	593.1
164	90.000	.36000	828.00	.3680	.2272	.5890	.9197	.1075-01	2787-01	.9340	5.543	578.0

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F29)

IH41(AEDC V41A-A4A) D T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
164	90.000	.36500	829.00	.2825	.1929	.3931	.9197	.9128-02	.1860-01	.9560	5.742	560.1
164	90.000	.37000	830.00	.1394	.9940-01	.1843	.9197	.4705-02	.8725-02	.5450	3.299	549.0
164	90.000	.37500	831.00	.9720-01	.7060-01	.1259	.9197	.3342-02	.5958-02	.4060	2.479	543.3
164	90.000	.38000	832.00	.6780-01	.4960-01	.8700-01	.9197	.2349-02	.4117-02	.2920	1.785	540.6
164	90.000	.39000	833.00	.7050-01	.5150-01	.9060-01	.9197	.2439-02	.4287-02	.3020	1.865	541.1
164	90.000	.40000	834.00	.7130-01	.5190-01	.9220-01	.9197	.2455-02	.4366-02	.2990	1.854	542.9
164	90.000	.50000	835.00	.4590-01	.3340-01	.5930-01	.9197	.1580-02	.2808-02	.1930	1.221	542.8
164	90.000	.60000	836.00	.7050-01	.5120-01	.9130-01	.9197	.2421-02	.4321-02	.2940	1.960	543.5
164	90.000	.70000	837.00	.6650-01	.4810-01	.8650-01	.9197	.2278-02	.4095-02	.2740	1.930	544.6
164	90.000	.80000	838.00	.8230-01	.6010-01	.1058	.9197	.2847-02	.5009-02	.3520	2.192	541.2
164	90.000	.90000	839.00	.9540-01	.6780-01	.1265	.9197	.3210-02	.5986-02	.3690	2.357	549.8
164	112.50	.23000	840.00	.5270-01	.3840-01	.6830-01	.9195	.1815-02	.3233-02	.2220	1.790	542.7
164	112.50	.25000	841.00	.3690-01	.2690-01	.4790-01	.9189	.1275-02	.2267-02	.1570	1.221	541.6
164	112.50	.30000	843.00	.8020-01	.5820-01	.1049	.9189	.2754-02	.4964-02	.3340	1.988	543.6
164	112.50	.33000	844.00	.1969	.1376	.2691	.9189	.6513-02	.1273-01	.7190	4.320	554.4
164	112.50	.35000	845.00	.1619	.1143	.2185	.9189	.5409-02	.1034-01	.6120	3.741	551.7
164	112.50	.37000	846.00	.8340-01	.6040-01	.1093	.9189	.2859-02	.5173-02	.3450	2.128	544.2
164	112.50	.40000	847.00	.3520-01	.2610-01	.4500-01	.9189	.1234-02	.2131-02	.1580	.9900	536.7
164	112.50	.45000	848.00	.2070-01	.1530-01	.2650-01	.9189	.7251-03	.1252-02	.9300-01	.5870	536.6
164	112.50	.50000	849.00	.1640-01	.1210-01	.2110-01	.9189	.5713-03	.9978-03	.7200-01	.4660	538.6
164	112.50	.55000	850.00	.1290-01	.9500-02	.1660-01	.9189	.4498-03	.7875-03	.5700-01	.3800	539.0
164	112.50	.60000	851.00	.5630-01	.4110-01	.7310-01	.9189	.1947-02	.3459-02	.2400	1.615	541.4
164	112.50	.65000	852.00	.6180-01	.4510-01	.8040-01	.9189	.2133-02	.3804-02	.2620	1.786	542.0
164	112.50	.70000	853.00	.8990-01	.6460-01	.1160	.9189	.3057-02	.5490-02	.3720	2.616	543.1
164	112.50	.75000	854.00	.8100-01	.5920-01	.1053	.9189	.2800-02	.4984-02	.3450	2.240	541.7
164	112.50	.80000	855.00	.9130-01	.6670-01	.1183	.9189	.3158-02	.5601-02	.3910	2.549	541.1
164	112.50	.90000	856.00	.8980-01	.6390-01	.1203	.9189	.3023-02	.5692-02	.3980	2.251	549.8
164	125.40	.84000	857.00	.1394	.9910-01	.1874	.9185	.4692-02	.8870-02	.5400	3.330	549.8
164	125.40	.85000	858.00	.1167	.8330-01	.1564	.9185	.3940-02	.7402-02	.4570	2.834	548.5
164	125.40	.86000	859.00	.8830-01	.6380-01	.1167	.9185	.3017-02	.5523-02	.3600	2.261	545.3
164	125.40	.87000	860.00	.8670-01	.6240-01	.1149	.9185	.2952-02	.5439-02	.3500	2.199	546.3
164	125.40	.88000	861.00	.9440-01	.6770-01	.1255	.9188	.3206-02	.5940-02	.3770	2.372	547.1
164	125.40	.89000	862.00	.9520-01	.6770-01	.1278	.9185	.3205-02	.6051-02	.3690	2.330	549.6
164	125.40	.90000	863.00	.1087	.7700-01	.1469	.9185	.3643-02	.6851-02	.4150	2.631	550.9
164	125.40	.91000	864.00	.9450-01	.6680-01	.1278	.9185	.3162-02	.6050-02	.3590	2.604	551.3
164	125.40	.92600	865.00	.1362	.9360-01	.1909	.9185	.4430-02	.9032-02	.4710	3.395	558.4
164	129.30	.80000	866.00	.7840-01	.5710-01	.1027	.9184	.2701-02	.4869-02	.3300	2.078	542.6
164	129.30	.81000	867.00	.7370-01	.5340-01	.9700-01	.9184	.2529-02	.4532-02	.3050	1.912	544.8
164	129.30	.82000	868.00	.7280-01	.5270-01	.9590-01	.9184	.2496-02	.4538-02	.3010	1.882	544.3
164	129.30	.83000	869.00	.9360-01	.6710-01	.1248	.9184	.3173-02	.5909-02	.3920	2.328	547.6
164	135.00	.40000-01	870.00	.3941	.2676	.3672	.9570	.1266-01	.1738-01	1.311	8.368	561.3
164	135.00	.50000-01	871.00	.3859	.2668	.3718	.9542	.1263-01	.1760-01	1.360	8.550	557.1
164	135.00	.60000-01	872.00	.3194	.2150	.3167	.9503	.1017-01	.1499-01	1.035	8.816	563.1

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F29)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
164	135.00	.70000-01	873.00	.2907	.1971	.2973	.9477	.9330-02	.1407-01	.9640	6.507	561.5
164	135.00	.10000+00	875.00	.2241	.1581	.2469	.9389	.7484-02	.1169-01	.8450	5.533	551.9
164	135.00	.15000	876.00	.1270	.9040-01	.1550	.9276	.4279-02	.7337-02	.4940	3.611	549.3
164	135.00	.20000	877.00	.6200-01	.4530-01	.7930-01	.9206	.2144-02	.3751-02	.2640	1.786	541.5
164	135.00	.35000	878.00	.4550-01	.3360-01	.5860-01	.9183	.1590-02	.2775-02	.2020	1.263	537.6
164	135.00	.40000	879.00	.4820-01	.3550-01	.6240-01	.9183	.1681-02	.2951-02	.2120	1.349	538.7
164	135.00	.50000	880.00	.2910-01	.2130-01	.3780-01	.9183	.1008-02	.1788-02	.1250	.8640	540.4
164	135.00	.55000	881.00	.4840-01	.3520-01	.6330-01	.9183	.1667-02	.2996-02	.2040	1.362	542.4
164	135.00	.60000	882.00	.5930-01	.4290-01	.7830-01	.9183	.2032-02	.3706-02	.2440	1.643	543.5
164	135.00	.65000	883.00	.9270-01	.6680-01	.1229	.9183	.3160-02	.5817-02	.3760	2.565	545.3
164	135.00	.70000	884.00	.9540-01	.6870-01	.1266	.9183	.3250-02	.5990-02	.3860	2.743	546.1
164	135.00	.75000	885.00	.6150-01	.4470-01	.8080-01	.9183	.2113-02	.3824-02	.2560	1.619	543.4
164	135.00	.80000	886.00	.6250-01	.4550-01	.8200-01	.9183	.2152-02	.3883-02	.2620	1.651	543.0
189	135.00	.84000	887.00	.8090-01	.6500-01	.9760-01	.9150	.2908-02	.4368-02	.5480	3.434	552.3
189	135.00	.85000	888.00	.9440-01	.6810-01	.1249	.9183	.3227-02	.5914-02	.3850	2.445	544.8
189	135.00	.86000	889.00	.9410-01	.6920-01	.1219	.9183	.3278-02	.5774-02	.4110	2.610	538.7
189	135.00	.87000	890.00	.9260-01	.6800-01	.1203	.9183	.3219-02	.5699-02	.4010	2.559	539.6
189	135.00	.89000	892.00	.1150	.8280-01	.1524	.9183	.3923-02	.7220-02	.4660	3.034	545.4
189	135.00	.90000	893.00	.1145	.8220-01	.1525	.9183	.3895-02	.7223-02	.4590	3.019	545.4
189	135.00	.91000	894.00	.8710-01	.6260-01	.1158	.9183	.2966-02	.5487 02	.3500	2.556	546.1
189	135.00	.92600	895.00	.1271	.8820-01	.1764	.9183	.4179-02	.8356-02	.4540	3.283	555.7
189	135.00	.95000	896.00	.6000-01	.4430-01	.7730-01	.9183	.2100-02	.3663-02	.2670	1.937	537.1
189	142.30	.42000	897.00	.7410-01	.5500-01	.9510-01	.9183	.2605-02	.4502-02	.3360	2.170	535.4
189	142.30	.43500	898.00	.8430-01	.6220-01	.1088	.9183	.2948-02	.5151-02	.3740	2.349	537.3
189	142.30	.45000	899.00	.7010-01	.5200-01	.9010-01	.9183	.2461-02	.4266-02	.3160	2.077	535.9
189	142.30	.50000	900.00	.4240-01	.3140-01	.5460-01	.9183	.1487-02	.2568-02	.1900	1.270	536.6
189	142.30	.60000	901.00	.9180-01	.6730-01	.1193	.9183	.3190-02	.5653-02	.3970	2.647	539.7
189	142.30	.70000	902.00	.8340-01	.6120-01	.1084	.9183	.2899-02	.5134-02	.3610	2.476	539.5
189	142.30	.80000	903.00	.7340-01	.5450-01	.9420-01	.9183	.2580-02	.4464-02	.3320	2.121	535.6
189	142.30	.87000	904.00	.1337	.9650-01	.1770	.9183	.4573-02	.8392-02	.5460	3.454	544.8
189	154.98	.42000	905.00	.1108	.8100-01	.1443	.9183	.3838-02	.6837-02	.4750	3.072	540.5
189	154.98	.43500	906.00	.1115	.8130-01	.1459	.9183	.3851-02	.6909-02	.4720	3.070	541.6
189	154.98	.45000	907.00	.7410-01	.5490-01	.9520-01	.9183	.2603-02	.4507-02	.3340	2.193	535.8
189	154.98	.50000	908.00	.6710-01	.4950-01	.8660-01	.9183	.2346-02	.4104-02	.2970	2.137	537 6
189	154.98	.93500	913.00	.5511	.3117	1.074	.9183	.1476-01	.5087-01	1.129	8.041	587.7
189	154.98	.94500	914.00	.9840-01	.6300-01	.1526	.9183	.2986-02	.7227-02	.2760	1.963	571.7
189	157.50	.80000-01	919.00	.2489	.1765	.2708	.9401	.8362-02	.1283-01	.9550	6.508	550.0
189	157.50	.20000	922.00	.5430-01	.4060-01	.6850-01	.9192	.1922-02	.3245-02	.2530	1.698	532.5
189	157.50	.42000	923.00	.8970-01	.6610-01	.1160	.9183	.3132-02	.5493-02	.3950	2.590	538.0
189	157.50	.43500	924.00	.1015	.7460-01	.1316	.9183	.3532-02	.6235-02	.4420	2.905	539.0
189	157.50	.45000	925.00	.8200-01	.6060-01	.1057	.9183	.2872-02	.5004-02	.3660	2.428	536.8
189	157.50	.85000	926.00	.6670-01	.4900-01	.8660-01	.9183	.2319-02	.4104-02	.2890	1.878	539.4
189	157.50	.86000	927.00	.1108	.8130-01	.1440	.9183	.3851-02	.6819-02	.4800	3.127	539.5

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F29)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
189	157.50	.87000	928.00	.7760-01	.5670-01	.1013	.9183	.2684-02	.4800-02	.3300	2.156	541.1
189	157.50	.88000	929.00	.8820-01	.6380-01	.1165	.9183	.3023-02	.5517-02	.3630	2.378	544.1
189	157.50	.89000	930.00	.7820-01	.5580-01	.1050	.9183	.2643-02	.4973-02	.3060	2.013	548.4
189	157.50	.90000	931.00	.6690-01	.4710-01	.9110-01	.9183	.2233-02	.4317-02	.2510	1.688	551.8
189	157.50	.91000	932.00	.5750-01	.4040-01	.7880-01	.9183	.1912-02	.3732-02	.2130	1.552	552.9
189	157.50	.92600	933.00	.1588	.9910-01	.2568	.9183	.4695-02	.1216-01	.4150	2.983	575.8
189	163.12	.41500	934.00	.7580-01	.5620-01	.9740-01	.9183	.2661-02	.4613-02	.3410	2.226	535.9
189	163.12	.42000	935.00	.8530-01	.6310-01	.1098	.9183	.2989-02	.5199-02	.3820	2.510	536.5
189	163.12	.43000	937.00	.1117	.8160-01	.1459	.9183	.3865-02	.6909-02	.4760	3.134	541.0
189	163.12	.44000	938.00	.1437	.1036	.1903	.9183	.4908-02	.9015-02	.5950	3.829	545.1
189	163.12	.44500	939.00	.1387	.1000+00	.1837	.9183	.4736-02	.8701-02	.5640	3.749	545.1
189	163.12	.45000	940.00	.1345	.9720-01	.1777	.9183	.4604-02	.8415-02	.5520	3.668	544.4
189	163.12	.50000	941.00	.1276	.9050-01	.1725	.9183	.4287-02	.8171-02	.4890	3.314	550.0
189	163.12	.60000	942.00	.1081	.7900-01	.1411	.9183	.3741-02	.6683-02	.4610	2.983	540.9
189	163.12	.70000	943.00	.6910-01	.5090-01	.8940-01	.9183	.2411-02	.4234-02	.3040	2.096	538.1
189	163.12	.80000	944.00	.6300-01	.4660-01	.8100-01	.9183	.2207-02	.3836-02	.2820	1.650	536.4
189	168.00	.35000	945.00	.5180-01	.3860-01	.6610-01	.9183	.1827-02	.3132-02	.2380	1.518	533.9
189	168.00	.36000	946.00	.5250-01	.3910-01	.6700-01	.9183	.1854-02	.3175-02	.2420	1.547	533.9
189	168.00	.37000	947.00	.4600-01	.3440-01	.5850-01	.9183	.1629-02	.2769-02	.2150	1.378	532.4
189	168.00	.37500	948.00	.4600-01	.3440-01	.5850-01	.9183	.1630-02	.2771-02	.2150	1.379	532.4
189	168.00	.38500	950.00	.3340-01	.2510-01	.4230-01	.9183	.1187-02	.2005-02	.1580	1.027	531.1
189	168.00	.39000	951.00	.4250-01	.3180-01	.5400-01	.9183	.1508-02	.2559 02	.1990	1.302	532.1
189	168.00	.39500	952.00	.4920-01	.3670-01	.6270-01	.9183	.1741-02	.2968-02	.2280	1.471	533.0
189	168.00	.40000	953.00	.5420-01	.4040-01	.6930-01	.9183	.1912-02	.3282-02	.2490	1.627	534.2
189	168.00	.40500	954.00	.6710-01	.4980-01	.8620-01	.9183	.2359-02	.4082-02	.3030	1.990	535.6
189	168.00	.41000	955.00	.8480-01	.6270-01	.1091	.9183	.2969-02	.5170-02	.3780	2.481	536.7
189	168.00	.41500	956.00	.8950-01	.6590-01	.1159	.9183	.3120-02	.5488-02	.3920	2.578	538.4
189	168.00	.42000	957.00	.1026	.7520-01	.1332	.9183	.3564-02	.6312 02	.4440	2.927	539.5
189	168.00	.42500	959.00	.8940-01	.6590-01	.1155	.9183	.3120-02	.5473-02	.3940	2.596	538.0
189	168.00	.43000	959.00	.1550	.1105	.2082	.9183	.5232-02	9861-02	.6050	3.954	548.6
189	168.00	.44000	960.00	.2024	.1423	.2765	.9183	.6739-02	.1310-01	.7530	4.929	552.4
189	168.00	.44500	961.00	.2129	.1471	.2972	.9183	.6969-02	.1408-01	.7490	4.891	556.7
189	168.00	.45000	962.00	.2159	.1487	.3026	.9183	.7045-02	.1433-01	.7520	4.936	557.5
189	168.00	.45500	963.00	.2040	.1410	.2845	.9183	.6678-02	.1348-01	.7180	4.719	556.6
189	168.00	.46000	964.00	.2244	.1540	.3159	.9183	.7296-02	.1496-01	.7730	5.103	558.3
189	168.00	.47000	965.00	.1673	.1161	.2323	.9183	.5501-02	.1100-01	.5370	3.959	555.7
189	168.00	.48000	966.00	.1427	.9990-01	.1958	.9183	.4732-02	.9276-02	.5240	3.511	553.4
189	168.00	.49000	967.00	.1233	.8880-01	.1637	.9183	.4205-02	.7756 02	.4980	3.352	545.7
189	168.00	.85000	968.00	.8810-01	.6100-01	.1078	.9183	.2888-02	.5107-02	.3610	2.349	539.3
189	168.00	.86000	969.00	.8560-01	.6330-01	.1120	.9183	.3000-02	.5352-02	.3700	2.417	540.7
189	168.00	.87000	970.00	.7770-01	.5540-01	.1021	.9183	.2671-02	.4676-02	.3240	2.117	543.0
189	168.00	.88000	971.00	.1180-01	.8410-01	.9650-01	.9183	.2494-02	.4525-02	.2880	1.887	546.2
189	168.00	.89000	972.00	.1130-01	.8110-01	.1163	.9183	.2803-02	.5507-02	.3310	2.193	549.3

(IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7729)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
189	168.00	.90000	973.00	.7790-01	.5460-01	.1064	.9183	.2588-02	.5038-02	.2890	1.959	552.6
189	168.00	.91000	974.00	.6700-01	.4660-01	.9260-01	.9183	.2209-02	.4388-02	.2410	1.754	554.9
189	168.00	.95000	976.00	.1304	.9460-01	.1716	.9183	.4482-02	.8128-02	.5420	3.910	543.2
189	180.00	.20000-01	982.00	.1079	.8000-01	.1052	.9537	.3789-02	.4982-02	.4870	3.402	535.8
189	180.00	.25000-01	983.00	.1821	.1332	.1798	.9518	.6307-02	.8515-02	.7800	5.403	540.6
189	180.00	.30000-01	984.00	.2886	.2031	.2882	.9501	.9620-02	.1365-01	1.079	7.389	552.0
162	180.00	.40000-01	600.00	.3155	.2173	.3193	.9487	.1028-01	.1511-01	1.092	6.990	556.1
162	180.00	.50000-01	601.00	.3568	.2443	.3725	.9454	.1156-01	.1763-01	1.215	7.793	557.2
162	180.00	.60000-01	602.00	.2919	.1959	.3159	.9423	.9268-02	.1495-01	.9330	6.168	561.7
162	180.00	.70000-01	603.00	.2412	.1640	.2682	.9393	.7759-02	.1269-01	.8030	5.446	558.8
162	180.00	.80000-01	604.00	.2249	.1544	.2563	.9366	.7306-02	.1213-01	.7720	4.999	556.6
162	180.00	.10000+00	605.00	.1603	.1122	.1903	.9316	.5308-02	.9001-02	.5860	4.194	551.9
162	180.00	.15000	606.00	.8460-01	.6020-01	.1086	.9226	.2850-02	.5137-02	.3280	2.386	547.1
162	180.00	.20000	607.00	.3470-01	.2520-01	.4550-01	.9185	.1190-02	.2153-02	.1440	.9400	541.6
162	180.00	.21000	608.00	.2670-01	.1940-01	.3500-01	.9183	.9195-03	.1657-02	.1120	.7750	540.8
162	180.00	.22000	609.00	.2100-01	.1530-01	.2760-01	.9183	.7252-03	.1304-02	.8800-01	.6600	540.4
162	180.00	.35000	611.00	.3380-01	.2450-01	.4440-01	.9183	.1159-02	.2102-02	.1400	.9340	541.7
162	180.00	.36000	612.00	.3350-01	.2430-01	.4410-01	.9183	.1151-02	.2088-02	.1390	.9350	541.7
162	180.00	.37000	613.00	.3000-01	.2170-01	.3940-01	.9183	.1029-02	.1865-02	.1240	.8370	541.6
162	180.00	.37500	614.00	.3570-01	.2580-01	.4700-01	.9183	.1223-02	.2223-02	.1470	.9900	542.1
162	180.00	.38000	615.00	.4630-01	.3350-01	.6100-01	.9183	.1586-02	.2885-02	.1900	1.283	542.2
162	180.00	.38500	616.00	.4730-01	.3430-01	.6240-01	.9183	.1622-02	.2954-02	.1950	1.311	542.3
162	180.00	.39000	617.00	.5080-01	.3670-01	.6730-01	.9183	.1736-02	.3185-02	.2060	1.386	543.4
162	180.00	.39500	618.00	.5440-01	.3910-01	.7240-01	.9183	.1851-02	.3424-02	.2180	1.471	544.6
162	180.00	.40000	619.00	.6450-01	.4600-01	.8640-01	.9183	.2176-02	.4090-02	.2520	1.687	546.7
162	180.00	.40500	620.00	.6940-01	.4910-01	.9390-01	.9183	.2325-02	.4444-02	.2640	1.772	548.8
162	180.00	.41000	621.00	.8610-01	.6050-01	.1176	.9183	.2861-02	.5564-02	.3190	2.137	550.9
162	180.00	.41500	622.00	.9790-01	.6820-01	.1352	.9183	.3225-02	.6399-02	.3520	2.351	553.2
162	180.00	.42500	624.00	.1401	.9510-01	.2003	.9183	.4498-02	.9477-02	.4630	3.085	559.3
162	180.00	.43000	625.00	.1771	.1175	.2612	.9183	.5559-02	.1236-01	.5470	3.644	564.0
162	180.00	.44000	626.00	.2631	.1691	.4101	.9183	.7952-02	.1940-01	.7290	4.843	570.6
162	180.00	.44500	627.00	.2623	.1703	.3989	.9183	.8058-02	.1887-01	.7610	5.107	567.9
162	180.00	.45000	628.00	.2154	.1437	.3151	.9183	.6799-02	.1491-01	.6760	4.552	562.8
162	180.00	.45500	629.00	.1672	.1139	.2378	.9183	.5389-02	.1125-01	.5600	3.832	558.5
162	180.00	.46000	630.00	.1443	.9960-01	.2018	.9183	.4711-02	.9545-02	.5030	3.368	555.5
162	180.00	.47000	631.00	.1103	.7740-01	.1510	.9183	.3661-02	.7144-02	.4060	2.724	551.3
162	180.00	.48000	632.00	.1170	.8280-01	.1587	.9183	.3917-02	.7507-02	.4430	2.993	549.2
162	180.00	.49000	633.00	.8250-01	.5880-01	.1108	.9183	.2781-02	.5243-02	.3210	2.187	547.1
162	180.00	.50000	634.00	.8280-01	.5910-01	.1111	.9183	.2794-02	.5258-02	.3230	2.257	546.9
162	180.00	.55000	635.00	.1083	.7610-01	.1482	.9183	.3599-02	.7011-02	.4000	2.651	551.1
162	180.00	.60000	636.00	.8400-01	.5990-01	.1127	.9183	.2833-02	.5334-02	.3270	2.108	546.9
162	180.00	.65000	637.00	.6900-01	.4940-01	.9220-01	.9183	.2339-02	.4362-02	.2730	1.766	545.7
162	180.00	.70000	638.00	.6580-01	.4710-01	.8770-01	.9183	.2230-02	.4151-02	.2610	1.786	545.4

(RV7F29)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
162	180.00	.75000	639.00	.5790-01	.4170-01	.7680-01	.9183	.1972-02	.3632-02	.2340	1.508	543.9
162	180.00	.80000	640.00	.5390-01	.3890-01	.7130-01	.9183	.1842-02	.3372-02	.2200	1.379	543.1
162	180.00	.85000	641.00	.5010-01	.3780-01	.7140-01	.9183	.1790-02	.3380-02	.2060	1.301	547.3
162	180.00	.86000	642.00	.6010-01	.4250-01	.8160-01	.9183	.2010-02	.3862-02	.2270	1.453	549.5
162	180.00	.87000	643.00	.9540-01	.6870-01	.1313	.9183	.3156-02	.6210-02	.3470	2.232	552.3
162	180.00	.88000	644.00	.1487	.1037	.2076	.9183	.4858-02	.9821-02	.5200	3.370	555.2
162	180.00	.89000	645.00	.1364	.9350-01	.1921	.9183	.4426-02	.9090-02	.4670	3.057	556.9
162	180.00	.90000	646.00	.6440-01	.4440-01	.9020-01	.9183	.2100-02	.4266-02	.2240	1.497	555.8
162	180.00	.93000	647.00	.5780-01	.3930-01	.9930-01	.9183	.1850-02	.4696-02	.1380	.9880	578.9
162	180.00	.96000	648.00	.4020-01	.2850-01	.8340-01	.9183	.1367-02	.2525-02	.1610	1.155	544.3
162	180.00	.98000	649.00	.3750-01	.2710-01	.8960-01	.9183	.1284-02	.2346-02	.1530	1.034	542.8
162	180.00	.99000	650.00	.3860-01	.2850-01	.9200-01	.9183	.1353-02	.2462-02	.1630	1.099	542.2
162	180.00	.99500	651.00	.4120-01	.2930-01	.9440-01	.9183	.1410-02	.2574-02	.1690	1.133	542.7
162	180.00	.99800	652.00	.3880-01	.2810-01	.9190-01	.9183	.1341-02	.2453-02	.1600	1.082	542.9
162	180.00	.99900	653.00	.4080-01	.2940-01	.9400-01	.9183	.1393-02	.2553-02	.1650	1.121	543.2
162	180.00	.99950	654.00	.4180-01	.3010-01	.9470-01	.9183	.1406-02	.2590-02	.1670	1.135	543.9
162	180.00	.99980	655.00	.4120-01	.2940-01	.9460-01	.9183	.1392-02	.2582-02	.1640	1.104	544.9
162	180.00	.99990	656.00	.4260-01	.3030-01	.9850-01	.9183	.1438-02	.2674-02	.1680	1.136	545.3
162	180.00	.99995	657.00	.5610-01	.4020-01	.1290-00	.9183	.1894-02	.3557-02	.2190	1.482	546.6
162	180.00	.99998	658.00	.5440-01	.3860-01	.1250-00	.9183	.1827-02	.3475-02	.2090	1.409	548.2
162	180.00	.99999	659.00	.6420-01	.4530-01	.8740-01	.9183	.2142-02	.4137-02	.2400	1.618	550.1
162	180.00	1.00000	660.00	.7830-01	.5540-01	.1081	.9183	.2619-02	.5113-02	.2910	1.948	551.4
162	180.00	1.00000	661.00	.8780-01	.6870-01	.1389	.9183	.3251-02	.6570-02	.3480	2.338	555.2
162	180.00	1.00000	662.00	.9540-01	.7540-01	.1782	.9183	.4040-02	.8433-02	.4200	2.822	558.4
162	180.00	1.00000	663.00	.1063	.8287	.2087	.9183	.5047-02	.1029-01	.4940	3.339	564.5
162	180.00	1.00000	664.00	.1313	.9862	.2862	.9183	.6212-02	.1363-01	.6170	4.134	562.9
162	180.00	1.00000	665.00	.1087	.8481	.2481	.9183	.5145-02	.1032-01	.5550	3.753	554.4
162	180.00	1.00000	666.00	.1080-00	.8430-01	.2777	.9183	.4297-02	.8408-02	.4750	3.217	551.7
162	180.00	1.00000	667.00	.8520-01	.6650-01	.1854	.9183	.4046-02	.7873-02	.4300	3.068	551.0
162	180.00	1.00000	668.00	.6090-01	.4750-01	.1191	.9183	.2860-02	.5635-02	.3380	2.302	548.3
162	180.00	1.00000	669.00	.6160-01	.4810-01	.1173	.9183	.2896-02	.5649-02	.3350	2.285	547.8
162	180.00	1.00000	670.00	.7980-01	.6230-01	.1974	.9183	.4183-02	.9539-02	.5240	3.716	554.2
162	180.00	1.00000	671.00	.8700-01	.6800-01	.1935	.9183	.4476-02	.9108-02	.4760	3.436	555.9
162	180.00	1.00000	672.00	.6980-01	.5450-01	.1388	.9183	.2755-02	.5149-02	.3210	2.266	546.0
162	180.00	1.00000	673.00	.6730-01	.5260-01	.1733-01	.9183	.2189-02	.4152-02	.2500	1.722	547.9
162	180.00	1.00000	674.00	.5980-01	.4670-01	.1190-01	.9183	.1924-02	.3732-02	.2110	1.435	546.4
162	180.00	1.00000	675.00	.5980-01	.4670-01	.1190-01	.9183	.1472-02	.2799-02	.1930	1.373	548.2
162	180.00	1.00000	676.00	.5980-01	.4670-01	.1190-01	.9183	.2286-02	.5428-02	.3200	2.266	552.2
162	180.00	1.00000	677.00	.5980-01	.4670-01	.1190-01	.9183	.3376-02	.6942-02	.3930	2.853	556.9
162	180.00	1.00000	678.00	.5980-01	.4670-01	.1190-01	.9183	.3591-02	.7156-02	.3900	2.791	558.0
162	180.00	1.00000	679.00	.5980-01	.4670-01	.1190-01	.9183	.3386-02	.7132-02	.3910	2.813	557.7
162	180.00	1.00000	680.00	.5980-01	.4670-01	.1190-01	.9183	.1823-02	.3934-02	.1940	1.477	556.5
162	180.00	1.00000	681.00	.5980-01	.4670-01	.1190-01	.9183	.1519-02	.3626-02	.1910	1.023	559.2

(IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F29)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DT/DT DEG. R /SEC	TW DEG. R
162	191.25	.95000	684.00	.4110-01	.2960-01	.5440-01	.9183	.1401-02	.2572-02	.1670	1.205	543.5
162	197.00	.93000	685.00	.4160-01	.3010-01	.5500-01	.9183	.1424-02	.2601-02	.1700	1.147	542.7
162	197.00	.91000	686.00	.4230-01	.3060-01	.5600-01	.9183	.1446-02	.2649-02	.1720	1.160	543.2
162	197.00	.89000	687.00	.4340-01	.3570-01	.6540-01	.9183	.1588-02	.3093-02	.2010	1.354	543.2
162	197.00	.86000	688.00	.4730-01	.3400-01	.6250-01	.9183	.1610-02	.2958-02	.1910	1.286	543.5
162	197.00	.84000	689.00	.4600-01	.3320-01	.6090-01	.9183	.1572-02	.2881-02	.1870	1.260	543.3
162	197.00	.82000	690.00	.3280-01	.2340-01	.4350-01	.9183	.1105-02	.2057-02	.1290	.8720	545.4
162	197.00	.80000	691.00	.1887	.1224	.2874	.9183	.5792-02	.1360-01	.5460	3.631	568.1
162	197.00	.78000	692.00	.8850-01	.6280-01	.1209	.9183	.2970-02	.5721-02	.3340	2.152	549.8
162	197.00	.76000	693.00	.8890-01	.6200-01	.1253	.9183	.2935-02	.5928-02	.3150	2.125	555.1
162	197.00	.74000	694.00	.3420-01	.2470-01	.4520-01	.9183	.1168-02	.2140-02	.1390	.8760	543.2
162	197.00	.72000	695.00	.7070-01	.4960-01	.9700-01	.9183	.2344-02	.4590-02	.2590	1.649	551.7
162	197.00	.70000	696.00	.4410-01	.2870-01	.6880-01	.9183	.1358-02	.3254-02	.1280	.9120	569.5
163	209.80	.95000	697.00	.1911	.1149	.1692	.9136	.5146-02	.7575-02	1.031	7.083	543.2
163	209.80	.93000	698.00	.2832	.1639	.2352	.9469	.7758-02	.1114-01	.9040	6.145	547.6
163	209.80	.91000	699.00	.3.64	.2247	.3381	.9421	.1064-01	.1601-01	1.219	7.739	549.5
163	209.80	.89000	700.00	.2809	.1933	.3208	.9363	.9151-02	.1519-01	.9740	6.552	557.6
163	209.80	.87000	701.00	.2034	.1441	.2457	.9291	.6824-02	.1163-01	.7780	4.949	550.1
163	209.80	.85000	702.00	.1210-01	.5910-01	.1034	.9211	.2795-02	.4997-02	.3420	2.449	541.9
163	209.80	.83000	703.00	.3816-0	.2370-01	.4980-01	.9183	.1358-02	.2359-02	.1740	1.161	535.3
163	209.80	.81000	704.00	.4811-01	.3390-01	.5990-01	.9183	.1601-02	.2838-02	.1990	1.415	539.7
163	209.80	.79000	705.00	.4810-01	.3540-01	.6460-01	.9183	.1724-02	.3060-02	.2140	1.472	539.8
163	209.80	.77000	706.00	.6190-01	.4510-01	.8110-01	.9183	.2135-02	.3837-02	.2610	1.797	541.8
163	209.80	.75000	707.00	.1103	.7860-01	.1481	.9183	.3723-02	.7011-02	.4310	2.946	548.4
163	209.80	.73000	708.00	.6877-0	.3930-01	.6770-01	.9183	.1824-02	.3204-02	.2300	1.470	538.2
163	209.80	.71000	709.00	.3480-01	.2690-01	.5100-01	.9183	.1369-02	.2414-02	.1720	1.099	539.7
163	209.80	.69000	710.00	.2879-01	.2070-01	.4380-01	.9183	.1358-02	.2356-02	.1740	1.090	538.2
163	209.80	.67000	711.00	.6870-01	.4410-01	.7900-01	.9183	.2103-02	.3740-02	.2610	1.652	540.2
163	209.80	.65000	712.00	.9834-01	.6870-01	.1199	.9183	.3251-02	.5675-02	.4130	2.958	537.1
163	209.80	.63000	713.00	.2139	.1496	.2256	.9464	.7429-02	.1088-01	.8700	5.917	547.0
163	209.80	.61000	714.00	.3010	.2146	.3224	.9417	.1016-01	.1526-01	1.176	7.865	548.4
163	209.80	.59000	715.00	.3103	.2141	.3637	.9359	.1014-01	.1722-01	1.349	7.109	550.6
163	209.80	.57000	716.00	.2034	.1437	.2408	.9288	.6805-02	.1140-01	.7950	5.181	546.7
163	209.80	.55000	717.00	.8050-01	.5860-01	.1031	.9209	.2774-02	.4880-02	.3380	2.476	542.4
163	209.80	.53000	718.00	.3790-01	.2810-01	.4860-01	.9183	.1331-02	.2303-02	.1710	1.161	535.5
163	209.80	.51000	719.00	.4800-01	.3500-01	.6270-01	.9183	.1657-02	.2966-02	.2040	1.462	541.2
163	209.80	.49000	720.00	.5640-01	.4120-01	.7360-01	.9183	.1949-02	.3482-02	.2400	1.669	540.9
163	217.70	.43500	721.00	.6540-01	.4750-01	.8590-01	.9183	.2250-02	.4068-02	.2730	1.897	542.7
163	217.70	.37500	722.00	.9910-01	.7130-01	.1316	.9183	.3377-02	.6232-02	.4000	2.766	545.7
163	217.70	.60000	723.00	.4510-01	.3330-01	.5820-01	.9183	.1575-02	.2757-02	.1990	1.280	537.6
163	217.70	.60000	724.00	.2660-01	.1960-01	.3430-01	.9183	.9294-03	.1622-02	.1180	.7540	537.1
163	217.70	.70000	725.00	.2670-01	.1980-01	.3430-01	.9183	.9382-03	.1625-02	.1200	.7610	535.7
163	217.70	.80000	726.00	.6110-01	.4490-01	.7940-01	.9183	.2124-02	.3760-02	.2650	1.699	539.4
163	217.70	.87000	727.00									

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F29)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
163	217.70	.92600	728.00	.7180-01	.5130-01	.9620-01	.9183	.2430-02	4553-02	.2830	2.055	547.8

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = 5.000 BETA = -6.000 GRIT = 4.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
130	5.500	4.980	5.030	6.000	-50.00	177.7	.1910	741.0	105.1	4.045	2763.	.1525-03
131	5.500	4.983	5.040	6.000	-50.00	177.8	.1910	741.0	105.1	4.047	2763.	.1526-03
132	5.500	4.978	5.040	6.000	-50.00	177.8	.1910	741.0	105.2	4.046	2764.	.1524-03
133	5.500	4.956	5.030	6.000	-50.00	177.9	.1910	743.0	105.4	4.050	2767.	.1523-03

RUN NUMBER	MU LB-SEC /FT2	UREF BTU/ R FT2SEC	ST FR REF(RI = .0175
130	.8461-07	.4474-01	.1363-01
131	.8460-07	.4473-01	.1362-01
132	.8468-07	.4475-01	.1360-01
133	.8484-07	.4479-01	.1364-01

TEST DATA

RUN NUMBER	MACH	RN/L	TO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
130	.55000	.49800+01	740.00	.4171	.3186	.3670	.9721	.1426-01	.1642-01	2.238	15.08	584.5
131	.55000	.49830+01	741.00	.1605	.1302	.1921	.9146	.5829-02	.8597-02	1.146	7.900	544.9
132	.55000	.49780+01	741.00	.1309	.1068	.1558	.9146	.4778-02	.6974-02	.9610	6.569	540.4
133	.55000	.49560+01	743.00	.5020	.3776	.4523	.9667	.1690-01	.2024-01	2.529	16.82	581.9
134	.55000	.49780+01	741.00	.6770	.4954	.6097	.9651	.2217-01	.2729-01	3.064	20.39	583.3
135	.55000	.49780+01	741.00	.4550	.3474	.4198	.9636	.1555-01	.1878-01	2.436	15.60	584.8
136	.55000	.49780+01	741.00	.4632	.3557	.4324	.9618	.1592-01	.1935-01	2.544	16.55	581.7
137	.55000	.49780+01	741.00	.3662	.2779	.3515	.9566	.1244-01	.1573-01	1.914	12.60	587.6
138	.55000	.49780+01	741.00	.3457	.2640	.3390	.9532	.1182-01	.1517-01	1.854	12.30	584.6
139	.55000	.49780+01	741.00	.3013	.2312	.3014	.9500	.1035-01	.1349-01	1.649	11.78	582.1
131	.00000	.80000-01	741.00	.2560	.2000	.2653	.9437	.8952-02	.1187-01	1.519	10.02	571.8
131	.00000	.10000+00	742.00	.1869	.1452	.2025	.9366	.6496-02	.9060-02	1.079	7.737	575.3
131	.00000	.12500	743.00	.1575	.1241	.1763	.9302	.5555-02	.7891-02	.9720	6.688	566.6
131	.00000	.15000	744.00	.1030	.8230-01	.1182	.9246	.3681-02	.5200-02	.6760	5.056	557.7
131	.00000	.17500	745.00	.7470-01	.6020-01	.8740-01	.9199	.2693-02	.3913-02	.5130	3.662	551.0
131	.00000	.20000	746.00	.6230-01	.5030-01	.7380-01	.9176	.2251-02	.3303-02	.4320	2.986	549.8
131	.00000	.21500	747.00									

(IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F29)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
131	.00000	.23000	748.00	.4830-01	.3900-01	.5770-01	.9157	.1744-02	.2584-02	.3350	2.477	549.1
131	.00000	.24000	749.00	.3990-01	.3220-01	.4800-01	.9146	.1443-02	.2146-02	.2790	2.099	548.4
131	.00000	.25000	750.00	.2360-01	.1920-01	.2830-01	.9146	.8570-03	.1269-02	.1670	1.353	546.4
131	.00000	.30000	751.00	.4830-01	.3900-01	.5800-01	.9146	.1745-02	.2595-02	.3370	2.213	548.2
131	.00000	.35000	752.00	.4780-01	.3870-01	.5730-01	.9146	.1733-02	.2564-02	.3390	2.142	546.0
131	.00000	.40000	753.00	.4920-01	.3990-01	.5900-01	.9146	.1785-02	.2639-02	.3490	2.244	546.0
131	.00000	.50000	754.00	.4710-01	.3810-01	.5660-01	.9146	.1704-02	.2533-02	.3290	2.153	548.2
131	.00000	.60000	755.00	.4320-01	.3500-01	.5170-01	.9146	.1565-02	.2315-02	.3060	1.961	546.1
131	.00000	.70000	756.00	.7360-01	.5910-01	.8900-01	.9146	.2647-02	.3985-02	.4990	3.285	552.9
131	.00000	.80000	757.00	.5170-01	.4180-01	.6210-01	.9146	.1869-02	.2780-02	.3610	2.261	548.3
131	.00000	.90000	758.00	.2870-01	.2330-01	.3440-01	.9146	.1041-02	.1538-02	.2040	1.321	545.4
131	55.000	.22000	759.00	.6860-01	.5510-01	.8090-01	.9193	.2464-02	.3619-02	.4620	3.427	553.9
131	55.000	.25000	760.00	.3180-01	.2570-01	.3790-01	.9164	.1149-02	.1698-02	.2200	1.723	549.7
131	55.000	.27000	761.00	.4270-01	.3420-01	.5130-01	.9164	.1532-02	.2296-02	.2850	2.115	555.2
131	55.000	.30000	762.00	.6590-01	.5300-01	.7870-01	.9164	.2373-02	.3523-02	.4510	2.703	551.6
131	55.000	.32000	763.00	.8400-01	.6740-01	.1008	.9164	.3015-02	.4511-02	.5640	3.323	554.5
131	55.000	.34000	764.00	.8850-01	.7080-01	.1064	.9164	.3169-02	.4764-02	.5870	3.466	556.3
131	55.000	.36000	765.00	.9700-01	.7750-01	.1168	.9164	.3469-02	.5229-02	.6390	3.821	557.3
131	55.000	.38000	766.00	.1232	.9720-01	.1502	.9164	.4351-02	.6721-02	.7650	4.605	565.7
131	55.000	.40000	767.00	.1234	.9740-01	.1503	.9164	.4358-02	.6728-02	.7670	4.748	565.5
131	67.500	.23000	768.00	.6550-01	.5260-01	.7800-01	.9175	.2355-02	.3489-02	.4430	3.289	553.2
131	67.500	.25000	769.00	.3080-01	.2480-01	.3670-01	.9162	.1111-02	.1642-02	.2140	1.659	549.3
131	67.500	.27000	770.00	.4720-01	.3780-01	.5670-01	.9162	.1692-02	.2538-02	.3160	2.292	555.0
131	67.500	.29000	771.00	.5140-01	.4140-01	.6140-01	.9162	.1853-02	.2747-02	.3540	2.189	550.5
131	67.500	.30000	772.00	.8950-01	.7160-01	.1077	.9162	.3203-02	.4821-02	.5930	3.609	556.3
131	67.500	.31000	773.00	.1004	.8010-01	.1212	.9162	.3586-02	.5425-02	.6680	3.963	558.1
131	67.500	.32000	774.00	.1179	.9400-01	.1424	.9162	.4205-02	.6373-02	.7890	4.593	558.7
131	67.500	.32500	775.00	.1303	.1034	.1581	.9162	.4629-02	.7074-02	.8820	4.981	561.7
131	67.500	.33000	776.00	.1448	.1143	.1767	.9162	.5117-02	.7906-02	.9920	5.402	565.3
131	67.500	.33500	777.00	.1710	.1340	.2104	.9162	.5996-02	.9418-02	1.026	6.123	570.4
131	67.500	.34000	778.00	.1805	.1406	.2232	.9162	.6294-02	.9930-02	1.058	6.309	573.5
131	67.500	.34500	779.00	.1934	.1496	.2413	.9162	.6695-02	.1080-01	1.095	6.537	577.9
131	67.500	.35000	780.00	.2017	.1557	.2522	.9162	.6967-02	.1129-01	1.132	6.770	579.0
131	67.500	.35500	781.00	.2213	.1097	.2788	.9162	.7593-02	.1248-01	1.206	7.221	582.6
131	67.500	.36000	782.00	.2054	.1582	.2573	.9162	.7080-02	.1152-01	1.143	6.850	580.1
131	67.500	.36500	783.00	.1870	.1455	.2318	.9162	.6511-02	.1037-01	1.087	6.519	574.5
131	67.500	.37000	784.00	.1688	.1322	.2077	.9162	.5916-02	.9295-02	1.012	6.110	570.5
131	67.500	.37500	785.00	.1525	.1120	.1747	.9162	.5012-02	.7819-02	.8690	5.291	568.3
131	67.500	.38000	786.00	.1759	.1078	.1676	.9162	.4884-02	.7502-02	.8430	5.138	567.3
131	67.500	.38500	787.00	.31	8950-01	.1377	.9162	.4004-02	.6161-02	.7110	4.370	563.9
132	67.500	.39000	788.00	.8430-01	.6570-01	.9980-01	.9162	.2933-02	.4467-02	.5340	3.315	559.8
132	67.500	.40000	789.00	.8180-01	.6330-01	.9630-01	.9162	.2835-02	.4316-02	.5160	3.199	559.0
132	67.500	.60000	790.00	.7450-01	.5760-01	.8760-01	.9162	.2573-02	.3920-02	.4690	2.909	556.8

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F29)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
132	67.500	.70000	791.00	.4990-01	.3950-01	.6090-01	.9162	.1766-02	.2724-02	.3120	2.185	564.7
132	67.500	.80000	792.00	.5320-01	.4220-01	.6450-01	.9162	.1890-02	.2886-02	.3400	2.123	561.4
132	67.500	.90000	793.00	.1720-01	.1360-01	.2090-01	.9162	.6086-03	.9350-03	.1080	.6930	563.4
132	78.000	.27000	794.00	.4490-01	.3600-01	.5400-01	.9158	.1610-02	.2415-02	.3020	2.145	554.0
132	78.000	.29000	795.00	.9070-01	.7250-01	.1095	.9158	.3243-02	.4901-02	.5990	3.673	556.8
132	78.000	.30000	796.00	.1645	.1292	.2023	.9158	.5788-02	.9062-02	1.003	6.009	569.7
132	78.000	.31000	797.00	.2273	.1749	.2860	.9158	.7835-02	.1281-01	1.263	7.523	581.7
132	78.000	.32000	798.00	.2618	.1979	.3360	.9158	.8864-02	.1505-01	1.350	7.963	590.6
132	78.000	.32500	799.00	.2705	.2036	.3490	.9158	.9118-02	.1563-01	1.370	8.094	592.7
132	78.000	.33000	800.00	.2823	.2128	.3637	.9158	.9530-02	.1629-01	1.437	8.496	592.1
132	78.000	.33500	801.00	.2921	.2195	.3777	.9158	.9829-02	.1692-01	1.468	8.673	593.5
132	78.000	.34000	802.00	.2948	.2221	.3801	.9158	.9946-02	.1702-01	1.497	8.848	592.4
132	78.000	.34500	803.00	.2906	.2189	.3746	.9158	.9805-02	.1678-01	1.477	8.751	592.3
132	78.000	.35000	804.00	.2757	.2094	.3522	.9158	.9377-02	.1577-01	1.447	8.592	588.6
132	78.000	.35500	805.00	.2529	.1945	.3182	.9158	.8712-02	.1425-01	1.403	8.355	581.9
132	78.000	.36000	806.00	.2256	.1743	.2823	.9158	.7808-02	.1264-01	1.278	7.641	579.3
132	78.000	.36500	807.00	.1939	.1506	.2414	.9158	.6744-02	.1081-01	1.122	6.740	576.5
132	78.000	.37000	808.00	.1595	.1249	.1968	.9158	.5595-02	.8815-02	.9690	5.786	571.6
132	78.000	.37500	809.00	.1415	.1115	.1734	.9158	.4992-02	.7767-02	.8750	5.290	567.7
132	78.000	.38000	810.00	.1111	.8810-01	.1354	.9158	.3947-02	.6062-02	.7080	4.315	563.5
132	78.000	.38000	811.00	.8550-01	.6820-01	.1035	.9156	.3052-02	.4634-02	.5600	3.427	559.5
132	78.000	.40000	812.00	.7580-01	.6060-01	.9150-01	.9158	.2715-02	.4098-02	.5030	3.086	557.5
119	90.000	.40000-01	985.00	.3921	.3036	.3600	.9653	.1358-01	.1611-01	2.228	14.28	576.8
118	90.000	.50000-01	986.00	.4523	.3481	.4226	.9617	.1557-01	.1891-01	2.504	15.93	580.1
118	90.000	.60000-01	987.00	.4314	.3223	.4085	.9583	.1442-01	.1828-01	2.113	13.58	594.4
118	90.000	.70000-01	988.00	.3883	.2921	.3762	.9549	.1307-01	.1683-01	1.954	12.64	591.4
118	90.000	.80000-01	989.00	.3367	.2553	.3333	.9516	.1142-01	.1491-01	1.750	12.15	587.7
118	90.000	.10000+00	990.00	.2838	.2195	.2918	.9453	.9819-02	.1306-01	1.604	10.30	577.5
118	90.000	.15000	991.00	.1610	.1249	.1802	.9315	.5589-02	.8062-02	.9240	6.689	575.5
132	90.000	.20000	813.00	.5630-01	.4590-01	.6790-01	.9163	.2056-02	.3041-02	.3950	2.864	550.9
132	90.000	.24000	814.00	.4220-01	.3400-01	.5070-01	.9152	.1521-02	.2271-02	.2900	2.344	552.0
132	90.000	.27000	816.00	.3610-01	.2900-01	.4350-01	.9152	.1298-02	.1947-02	.2450	1.738	553.9
132	90.000	.29000	817.00	.1926	.1490	.2420	.9152	.6674-02	.1084-01	1.095	6.693	578.9
132	90.000	.30000	818.00	.3161	.2340	.4183	.9152	.1048-01	.1873-01	1.500	8.926	599.8
132	90.000	.31000	819.00	.3334	.2484	.4379	.9152	.1112-01	.1961-01	1.620	9.577	597.3
132	90.000	.32000	820.00	.3204	.2395	.4188	.9152	.1073-01	.1876-01	1.580	9.321	595.6
132	90.000	.32500	821.00	.3106	.2325	.4055	.9152	.1041-01	.1816-01	1.538	9.051	595.2
132	90.000	.33000	822.00	.3384	.2530	.4423	.9152	.1133-01	.1981-01	1.669	9.845	595.6
132	90.000	.33500	823.00	.3691	.2710	.4934	.9152	.1214-01	.2210-01	1.698	10.01	603.1
132	90.000	.34000	824.00	.4496	.3237	.6167	.9152	.1450-01	.2762-01	1.923	11.23	610.3
132	90.000	.34500	825.00	.4926	.3481	.6929	.9152	.1559-01	.3103-01	1.975	11.53	616.3
132	90.000	.35000	826.00	.5623	.3716	.8753	.9152	.1664-01	.3920-01	1.823	10.56	633.4
132	90.000	.36000	828.00	.4231	.3042	.5816	.9152	.1362-01	.2605-01	1.800	10.51	610.8

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F29)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
132	90.000	.35500	829.00	.2446	.1874	.3107	.9152	.8393-02	.1392-01	1.333	7.909	584.1
132	90.000	.37000	830.00	.1518	.1200	.1861	.9152	.5375-02	.8334-02	.9540	5.729	565.4
132	90.000	.37500	831.00	.1038	.8310-01	.1256	.9152	.3723-02	.5627-02	.6930	4.205	556.7
132	90.000	.38000	832.00	.7570-01	.6100-01	.9090-01	.9152	.2732-02	.4070-02	.5240	3.186	551.2
132	90.000	.39000	833.00	.7400-01	.5970-01	.8870-01	.9152	.2675-02	.3974-02	.5160	3.173	550.1
132	90.000	.40000	834.00	.7230-01	.5820-01	.8700-01	.9152	.2607-02	.3898-02	.4960	3.058	552.6
132	90.000	.50000	835.00	.4460-01	.3580-01	.5360-01	.9152	.1605-02	.2402-02	.3050	1.923	552.8
132	90.000	.60000	836.00	.5760-01	.4630-01	.6940-01	.9152	.2075-02	.3109-02	.3930	2.611	553.4
132	90.000	.70000	837.00	.5900-01	.4720-01	.7150-01	.9152	.2115-02	.3203-02	.3920	2.748	557.4
132	90.000	.80000	838.00	.7060-01	.5670-01	.8520-01	.9152	.2541-02	.3815-02	.4790	2.969	554.2
132	90.000	.90000	839.00	.8010-01	.6340-01	.9810-01	.9152	.2839-02	.4395-02	.5050	3.201	564.9
132	112.50	.23000	840.00	.3980-01	.3220-01	.4780-01	.9148	.1444-02	.2139-02	.2810	2.266	548.1
132	112.50	.25000	841.00	.1970-01	.1600-01	.2370-01	.9139	.7149-03	.1060-02	.1410	1.090	546.3
132	112.50	.30000	843.00	.8070-01	.6500-01	.9780-01	.9139	.2909-02	.4382-02	.5530	3.282	552.7
132	112.50	.33000	844.00	.1646	.1296	.2050	.9139	.5806-02	.9179-02	1.010	6.025	568.9
132	112.50	.35000	845.00	.1552	.1227	.1920	.9139	.5495-02	.8598-02	.9740	5.911	565.7
132	112.50	.37000	846.00	.9480-01	.7600-01	.1153	.9139	.3405-02	.5162-02	.6400	3.926	555.0
132	112.50	.40000	847.00	.3710-01	.3020-01	.4440-01	.9139	.1352-02	.1987-02	.2710	1.690	542.8
132	112.50	.45000	848.00	.1950-01	.1590-01	.2330-01	.9139	.7123-03	.1044-02	.1430	.9040	541.5
132	112.50	.50000	849.00	.1740-01	.1410-01	.2080-01	.9139	.6322-03	.9321-03	.1260	.8090	544.2
132	112.50	.55000	850.00	.1220-01	.9900-02	.1470-01	.9139	.4455-03	.6571-03	.8800-01	.5920	544.3
132	112.50	.60000	851.00	.3110-01	.2530-01	.3740-01	.9139	.1131-02	.1677-02	.2220	-1.491	546.3
132	112.50	.65000	852.00	.4380-01	.3550-01	.5270-01	.9139	.1588-02	.2362-02	.3100	2.108	547.7
132	112.50	.70000	853.00	.5380-01	.4330-01	.6510-01	.9139	.1941-02	.2916-02	.3710	2.598	551.7
132	112.50	.75000	854.00	.5030-01	.4050-01	.6090-01	.9139	.1814-02	.2727-02	.3470	2.243	551.8
132	112.50	.90000	856.00	.8150-01	.6450 01	.1005	.9139	.2889-02	.4503-02	.5150	3.312	564.5
132	125.40	.84000	857.00	.1404	.1115	.1733	.9133	.4994-02	.7760-02	.9020	5.531	562.3
132	125.40	.85000	858.00	.1244	.9880-01	.1535	.9133	.4426-02	.6875-02	.8000	4.934	562.1
132	125.40	.86000	859.00	.9750-01	.7770-01	.1198	.9133	.3482-02	.5365-02	.6390	3.978	559.4
132	125.40	.87000	860.00	.8770-01	.6990-01	.1079	.9133	.3131-02	.4833-02	.5720	3.574	560.1
132	125.40	.88000	861.00	.8700-01	.6920-01	.1072	.9133	.3099-02	.4802-02	.5630	3.509	561.4
132	125.40	.89000	862.00	.8530-01	.6730-01	.1055	.9133	.3012-02	.4723-02	.5350	3.353	565.2
132	125.40	.90000	863.00	.8800-01	.6930-01	.1097	.9133	.3102-02	.4911-02	.5420	3.411	568.1
132	125.40	.91000	864.00	.5120-01	.4030-01	.6400-01	.9133	.1804-02	.2865-02	.3140	2.257	569.0
132	125.40	.92600	865.00	.9550-01	.7300-01	.1234	.9133	.3271-02	.5527-02	.5160	3.667	585.2
132	129.30	.80000	866.00	.7000-01	.5620-01	.8550-01	.9132	.2515-02	.3823 02	.4730	2.961	554.8
132	129.30	.81000	867.00	.7180-01	.5760-01	.8790-01	.9132	.2579-02	.3936-02	.4820	2.999	556.0
132	129.30	.82000	868.00	.7710-01	.6170-01	.9430-01	.9132	.2765-02	.4225-02	.5160	3.210	556.3
132	129.30	.83000	869.00	.9460-01	.7520-01	.1168	.9132	.3366-02	.5229-02	.6090	3.789	561.9
132	135.00	.40000-01	870.00	.3791	.2932	.3661	.9561	.1313-01	.1639-01	2.152	13.61	579.0
132	135.00	.50000-01	871.00	.3692	.2887	.3639	.9526	.1293-01	.1630-01	2.205	13.92	572.4
132	135.00	.60000-01	872.00	.3210	.2464	.3226	.9492	.1103-01	.1445-01	1.763	11.50	583.1
132	135.00	.70000-01	873.00	.3002	.2312	.3077	.9459	.1036-01	.1378-01	1.674	11.20	581.3

(RV7F29)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
132	135.00	.10000+00	875.00	.2147	.1697	.2307	.9369	.7602-02	.1033-01	1.348	8.762	565.6
132	135.00	.15000	876.00	.1188	.9470-01	.1365	.9246	.4239-02	.6116-02	.7740	5.622	560.4
132	135.00	.20000	877.00	.5990-01	.4850-01	.7120-01	.9162	.2173-02	.3188-02	.4260	2.862	547.5
132	135.00	.35000	878.00	.4170-01	.3390-01	.5010-01	9131	.1519-02	.2245-02	.3030	1.888	543.2
132	135.00	.40000	879.00	.4780-01	.3890-01	.5760-01	.9131	.1742-02	.2579-02	.3470	2.200	543.9
132	135.00	.50000	880.00	.2370-01	.1920-01	.2860-01	.9131	.8619-03	.1283-02	.1700	1.166	546.0
132	135.00	.55000	881.00	.2700-01	.2180-01	.3270-01	.9131	.9776-03	.1465-02	.1900	1.263	548.8
132	135.00	.60000	882.00	.4090-01	.3290-01	.4990-01	.9131	.1474-02	.2234-02	.2800	1.675	553.0
132	135.00	.65000	883.00	.9050-01	.7250-01	.1109	.9131	.3247-02	.4966-02	.6060	4.115	556.3
132	135.00	.70000	884.00	.8550-01	.6840-01	.1048	.9131	.3063-02	.4696-02	.5690	4.023	557.2
132	135.00	.75000	885.00	.5580-01	.4470-01	.6830-01	.9131	.2000-02	.3058-02	.3730	2.341	556.3
132	135.00	.80000	886.00	.5680-01	.4560-01	.6960-01	.9131	.2040-02	.3115-02	.3820	2.389	555.7
132	135.00	.84000	887.00	.9930-01	.7790-01	.1247	.9131	.3488-02	.5585-02	.6000	3.726	570.9
118	135.00	.85000	888.00	.1071	.8340-01	.1354	.9131	.3732-02	.6059-02	.6260	3.915	573.1
118	135.00	.86000	889.00	.7340-01	.5800-01	.9130-01	.9131	.2594-02	.4086-02	.4580	2.867	564.5
118	135.00	.87000	890.00	.6510-01	.5150-01	.8100-01	.9131	.2305-02	.3622-02	.4080	2.573	563.8
118	135.00	.88000	891.00	.6080-01	.4780-01	.7600-01	.9131	.2140-02	.3399-02	.3720	2.354	567.0
118	135.00	.89000	892.00	.6720-01	.5260-01	.8460-01	.9131	.2351-02	.3786-02	.4000	2.569	570.9
118	135.00	.90000	893.00	.4930-01	.3830-01	.6250-01	.9131	.1715-02	.2794-02	.2860	1.857	574.1
118	135.00	.91000	894.00	.2770-01	.2160-01	.3500-01	.9131	.9676-03	.1567-02	.1630	1.174	572.4
118	135.00	.92600	895.00	.4520-01	.3420-01	.5940-01	.9131	.1529-02	.2657-02	.2320	1.652	589.1
118	135.00	.95000	896.00	.4720-01	.3780-01	.5780-01	.9131	.1689-02	.2586-02	.3140	2.257	555.1
118	142.30	.42000	897.00	.5670-01	.4590-01	.6870-01	.9130	.2054-02	.3076-02	.3990	2.564	546.8
118	142.30	.43500	898.00	.6800-01	.5480-01	.8260-01	.9130	.2454-02	.3697-02	.4700	2.935	549.2
118	142.30	.45000	899.00	.6630-01	.5340-01	.8060-01	.9130	.2390-02	.3607-02	.4570	2.983	549.8
118	142.30	.50000	900.00	.3980-01	.3210-01	.4930-01	.9130	.1438-02	.2163-02	.2770	1.841	548.5
118	142.30	.60000	901.00	.7050-01	.5650-01	.8630-01	.9130	.2528-02	.3860-02	.4720	3.126	554.0
118	142.30	.70000	902.00	.8400-01	.6690-01	.1038	.9130	.2992-02	.4643-02	.5420	3.577	559.6
118	142.30	.80000	903.00	.6380-01	.5100-01	.7830-01	.9130	.2280-02	.3505-02	.4200	2.659	556.5
118	142.30	.87000	904.00	.9490-01	.7430-01	.1194	.9130	.3327-02	.5343-02	.5680	3.549	570.1
118	154.98	.42000	905.00	.8550-01	.6850-01	.1048	.9130	.3066-02	.4690-02	.5710	3.666	554.7
118	154.98	.43500	906.00	.9650-01	.7900-01	.1205	.9130	.3533-02	.5390-02	.6610	4.273	553.8
118	154.98	.45000	907.00	.6720-01	.5430-01	.8160-01	.9130	.2427-02	.3652-02	.4670	3.042	548.6
118	154.98	.50000	908.00	.1581	.1252	.1923	.9161	.5607-02	.8607-02	1.000	7.100	562.6
118	154.98	.93500	913.00	.4100	.2925	.5834	.9130	.1309-01	.2610-01	1.691	11.91	611.5
118	154.98	.94500	914.00	.1017	.7640-01	.1347	.9130	.3421-02	.6026-02	.5100	3.590	591.8
118	157.50	.80000-01	919.00	.2402	.1878	.2572	.9382	.8404-02	.1151-01	1.427	9.621	571.1
118	157.50	.20000	922.00	.4560-01	.3690-01	.5470-01	.9144	.1652-02	.2446-02	.3230	2.150	545.5
118	157.50	.42000	923.00	.8540-01	.6840-01	.1048	.9130	.3058-02	.4689-02	.5670	3.682	555.5
118	157.50	.43500	924.00	.1040	.8320-01	.1276	.9130	.3722-02	.5707-02	.6900	4.494	555.5
118	157.50	.45000	925.00	.8300-01	.6660-01	.1013	.9130	.2982-02	.4535-02	.5610	3.695	552.6
118	157.50	.85000	926.00	.4850-01	.3840-01	.6020-01	.9130	.1718-02	.2693-02	.3060	1.962	562.9
118	157.50	.86000	927.00	.6020-01	.4750-01	.7490-01	.9130	.2126-02	.3351-02	.3750	2.409	564.6

DATE 03 JUN 76

AEDC V-1A-A-A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F29)

IH-1(AEDC V-1A-A-A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	T/ T/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
118	157.50	.87000	928.00	.5900-01	.4650-01	.7360-01	.9130	.2082-02	.3295-02	.3640	2.348	565.8
118	157.50	.88000	929.00	.7490-01	.5860-01	.9430-01	.9130	.2620-02	.4218-02	.4460	2.882	570.7
118	157.50	.89000	930.00	.7730-01	.5990-01	.9860-01	.9130	.2679-02	.4411-02	.4400	2.852	576.7
118	157.50	.90000	931.00	.4550-01	.3500-01	.5840-01	.9130	.1565-02	.2613-02	.2520	1.668	580.1
118	157.50	.92600	933.00	.8320-01	.6090-01	.1141	.9130	.2724-02	.5103-02	.3770	2.673	602.6
118	163.12	.41500	934.00	.8040-01	.6470-01	.9800-01	.9130	.2896-02	.4383-02	.5500	3.562	550.9
118	163.12	.42000	935.00	.8950-01	.7180-01	.1094	.9130	.3215-02	.4897-02	.6030	3.934	553.2
118	163.12	.43000	937.00	.1133	.9020-01	.1397	.9130	.4037-02	.6251-02	.7350	4.793	558.9
118	163.12	.44000	938.00	.1263	.1002	.1563	.9130	.4485-02	.6994-02	.8060	5.237	561.1
118	163.12	.44500	939.00	.1190	.9430-01	.1476	.9130	.4218-02	.6602-02	.7530	4.961	562.4
118	163.12	.45000	940.00	.1225	.9730-01	.1515	.9130	.4352-02	.6779-02	.7840	5.168	560.8
118	163.12	.50000	941.00	.1096	.8630-01	.1371	.9130	.3860-02	.6132-02	.6720	4.509	566.9
118	163.12	.60000	942.00	.1051	.8360-01	.1300	.9130	.3739-02	.5815-02	.6750	4.324	560.3
118	163.12	.70000	943.00	.6400-01	.5120-01	.7860-01	.9130	.2292-02	.3515-02	.4250	2.902	555.6
118	163.12	.80000	944.00	.5010-01	.3990-01	.6180-01	.9130	.1786-02	.2764-02	.3250	2.109	558.7
118	168.00	.35000	945.00	.4000-01	.3250-01	.4840-01	.9130	.1452-02	.2164-02	.2850	1.806	544.9
118	168.00	.36000	946.00	.3960-01	.3220-01	.4780-01	.9130	.1439-02	.2140-02	.2830	1.800	544.3
118	168.00	.37000	947.00	.3760-01	.3060-01	.4540-01	.9130	.1367-02	.2032-02	.2690	1.720	543.8
118	168.00	.37500	948.00	.3390-01	.2750-01	.4090-01	.9130	.1232-02	.1832-02	.2430	1.550	543.9
118	168.00	.38500	950.00	.2780-01	.2270-01	.3350-01	.9130	.1014-02	.1499-02	.2020	1.304	541.9
118	169.00	.39000	951.00	.3360-01	.2730-01	.4060-01	.9130	.1221-02	.1817-02	.2400	1.557	544.5
118	168.00	.39500	952.00	.4050-01	.3280-01	.4900-01	.9130	.1467-02	.2194-02	.2850	1.825	546.3
118	168.00	.40000	953.00	.5030-01	.4070-01	.6100-01	.9130	.1821-02	.2731-02	.3520	2.290	547.4
118	168.00	.40500	954.00	.5490-01	.4430-01	.6670-01	.9130	.1983-02	.2983-02	.3810	2.485	548.6
118	168.00	.41000	955.00	.6630-01	.5340-01	.8070-01	.9130	.2391-02	.3612-02	.4660	2.967	550.3
118	169.00	.41500	956.00	.8660-01	.6950-01	.1058	.9130	.3109-02	.4735-02	.5840	3.806	553.2
118	168.00	.42000	957.00	.1005	.8050-01	.1230	.9130	.3603-02	.5505-02	.6720	4.396	554.3
118	168.00	.42500	958.00	.1016	.8130-01	.1247	.9130	.3638-02	.5581-02	.6740	4.402	555.7
118	168.00	.43000	959.00	.1513	.1191	.1893	.9130	.5327-02	.8469-02	.9260	5.994	567.1
118	168.00	.44000	960.00	.1583	.1238	.1995	.9130	.5537-02	.8825-02	.9400	6.096	571.1
118	169.00	.44500	961.00	.1595	.1242	.2020	.9130	.5557-02	.9036-02	.9300	6.025	573.5
118	168.00	.45000	962.00	.1679	.1305	.2130	.9130	.5840-02	.9532-02	.9720	6.328	574.4
118	168.00	.45500	963.00	.1534	.1196	.1941	.9130	.5351-02	.8684-02	.8930	5.855	572.9
118	168.00	.46000	964.00	.1469	.1144	.1857	.9130	.5118-02	.8310-02	.8590	5.628	573.1
118	168.00	.47000	965.00	.1345	.1054	.1693	.9130	.4717-02	.7577-02	.8050	5.303	570.1
118	168.00	.48000	966.00	.1194	.9390-01	.1494	.9130	.4203-02	.6686-02	.7290	4.853	567.3
118	168.00	.49000	967.00	.1036	.8230-01	.1281	.9130	.3682-02	.5730-02	.6640	4.430	560.6
118	169.00	.85000	969.00	.5530-01	.4390-01	.6830-01	.9130	.1965-02	.3055-02	.3550	2.288	560.2
118	169.00	.86000	969.00	.5540-01	.4390-01	.6870-01	.9130	.1962-02	.3076-02	.3490	2.252	562.9
118	168.00	.87000	970.00	.5260-01	.4140-01	.6560-01	.9130	.1854-02	.2935-02	.3340	2.094	565.0
118	168.00	.89000	971.00	.8060-01	.6300-01	.1016	.9130	.2917-02	.4547-02	.4770	3.083	571.5
118	169.00	.89000	972.00	.1025	.7920-01	.1308	.9130	.3546-02	.5552-02	.5800	3.782	577.3
118	168.00	.90000	973.00	.1003	.7700-01	.1282	.9130	.3445-02	.5379-02	.5600	3.675	581.3

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F29)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
118	168.00	.91000	974.00	.2930-01	.2250-01	.3770-01	.9130	.1005-02	.1689-02	.1600	1.147	581.7
118	168.00	.92600	975.00	.5620-01	.4060-01	.7860-01	.9130	.1815-02	.3518-02	.2420	1.699	607.7
118	168.00	.95000	976.00	.1284	.1024	.1580	.9130	.4583-02	.7069-02	.8400	6.014	557.6
118	180.00	.20000-01	982.00	.6220-01	.5060-01	.6160-01	.9520	.2263-02	.2755-02	.4490	3.131	542.3
118	180.00	.25000-01	983.00	.1430	.1151	.1429	.9501	.5150-02	.6394-02	.9790	6.753	550.7
118	180.00	.30000-01	984.00	.2608	.2047	.2630	.9485	.9158-02	.1177-01	1.577	10.71	568.6
130	180.00	.40000-01	600.00	.3375	.2623	.3435	.9470	.1174-01	.1537-01	1.951	12.37	574.6
130	180.00	.50000-01	601.00	.3570	.2777	.3705	.9436	.1242-01	.1658-01	2.071	13.17	574.1
130	180.00	.60000-01	602.00	.2873	.2216	.3046	.9404	.9919-02	.1363-01	1.608	10.54	578.8
130	180.00	.70000-01	603.00	.2382	.1852	.2568	.9373	.8289-02	.1149-01	1.381	9.298	574.2
130	180.00	.80000-01	604.00	.2301	.1801	.2520	.9344	.8058-02	.1128-01	1.373	8.824	570.5
130	180.00	.10000+00	605.00	.1557	.1232	.1751	.9291	.5514-02	.7836-02	.9780	6.960	563.4
130	180.00	.15000	606.00	.7500-01	.6000-01	.8890-01	.9187	.2687-02	.3978-02	.4980	3.608	555.3
130	180.00	.20000	607.00	.3080-01	.2500-01	.3720-01	.9133	.1117-02	.1663-02	.2180	1.426	545.2
130	180.00	.21000	608.00	.2300-01	.1860-01	.2770-01	.9130	.8343-03	.1240-02	.1640	1.137	543.9
130	180.00	.22000	609.00	.1880-01	.1530-01	.2270-01	.9130	.6847-03	.1018-02	.1350	1.005	543.8
130	180.00	.30000	610.00	.2710-01	.2200-01	.3290-01	.9130	.9827-03	.1472-02	.1910	1.305	546.8
130	180.00	.35000	611.00	.3580-01	.2900-01	.4340-01	.9130	.1297-02	.1942-02	.2520	1.677	546.7
130	180.00	.36000	612.00	.3550-01	.2870-01	.4300-01	.9130	.1285-02	.1923-02	.2500	1.678	546.5
130	180.00	.37000	613.00	.3600-01	.2920-01	.4360-01	.9130	.1305-02	.1953-02	.2540	1.704	546.5
130	180.00	.37500	614.00	.3660-01	.2960-01	.4430-01	9130	.1325-02	.1994-02	.2570	1.726	547.0
130	180.00	.38000	615.00	.3650-01	.2950-01	.4430-01	.9130	.1320-02	.1981-02	.2550	1.715	547.5
130	180.00	.38500	616.00	.3810-01	.3080-01	.4620-01	.9130	.1377-02	.2067-02	.2660	1.786	547.7
130	180.00	.39000	617.00	.4250-01	.3430-01	.5160-01	.9130	.1535-02	.2308-02	.2950	1.978	548.3
130	180.00	.39500	618.00	.5060-01	.4080-01	.6160-01	.9130	.1826-02	.2756-02	.3490	2.349	549.8
130	180.00	.40000	619.00	.5860-01	.4710-01	.7150-01	.9130	.2106-02	.3198-02	.3970	2.656	552.1
130	180.00	.40500	620.00	.6520-01	.5220-01	.7990-01	.9130	.2337-02	.3575-02	.4350	2.913	554.7
130	180.00	.41000	621.00	.7910-01	.6310-01	.9740-01	.9130	.2824-02	.4359-02	.5170	3.457	557.7
130	180.00	.41500	622.00	.9680-01	.7680-01	.1199	.9130	.3437-02	.5368-02	.6160	4.097	561.6
130	180.00	.42000	623.00	.1378	.1074	.1744	.9130	.4826-02	.7855-02	.8860	5.331	573.1
130	180.00	.42500	624.00	.1727	.1330	.2218	.9130	.5950-02	.9927-02	.9570	6.328	579.9
130	180.00	.43000	625.00	.2152	.1626	.2827	.9130	.7278-02	.1265-01	1.104	7.289	589.1
130	180.00	.44000	626.00	.2151	.1638	.2799	.9130	.7330-02	.1253-01	1.139	7.575	585.5
130	180.00	.44500	627.00	.1780	.1373	.2279	.9130	.6145-02	.1020-01	.9970	6.652	578.6
130	180.00	.45000	628.00	.1409	.1101	.1777	.9130	.4928-02	.7952-02	.8350	5.681	571.3
130	180.00	.45500	629.00	.1228	.9670-01	.1535	.9130	.4328-02	.6870-02	.7540	5.018	566.6
130	180.00	.46000	630.00	.9300-01	.7370-01	.1154	.9130	.3297-02	.5163-02	.5880	3.922	562.4
130	180.00	.47000	631.00	.8340-01	.6630-01	.1030	.9130	.2968-02	.4609-02	.5370	3.608	559.8
130	180.00	.48000	632.00	.7060-01	.5640-01	.8690-01	.9130	.2524-02	.3887-02	.4640	3.151	557.0
130	180.00	.49000	633.00	.6190-01	.4950-01	.7600-01	.9130	.2217-02	.3399-02	.4110	2.860	555.5
130	180.00	.50000	634.00	.7800-01	.6230-01	.9590-01	.9130	.2787-02	.4293-02	.5120	3.384	557.0
130	180.00	.55000	635.00	.9050-01	.7230-01	.1113	.9130	.3235-02	.4982-02	.5950	3.814	557.0
130	180.00	.60000	636.00	.5840-01	.4700-01	.7120-01	.9130	.2104-02	.3185-02	.4000	2.580	550.8
130	180.00	.65000	637.00									

(IH41)(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F29)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
130	180.00	.70000	638.00	.6970-01	.5560-01	.8570-01	.9130	2-89-02	3837-02	.4570	3.109	557.3
130	180.00	.75000	639.00	.3920-01	.3140-01	.4810-01	.9130	.1405-02	.2153-02	.6800	.672	555.5
130	180.00	.80000	640.00	.5430-01	.4340-01	.6660-01	.9130	.1934-02	.2933-02	.6593	.928	556.3
130	180.00	.85000	641.00	.4040-01	.3910-01	.5120-01	.9130	.1760-02	.2744-02	.6414	.868	556.3
130	180.00	.90000	642.00	.4040-01	.3910-01	.5120-01	.9130	.1760-02	.2744-02	.6414	.868	556.3
130	180.00	.95000	643.00	.4040-01	.3910-01	.5120-01	.9130	.1760-02	.2744-02	.6414	.868	556.3
130	180.00	.98000	644.00	.4040-01	.3910-01	.5120-01	.9130	.1760-02	.2744-02	.6414	.868	556.3
130	180.00	1.00000	645.00	.4040-01	.3910-01	.5120-01	.9130	.1760-02	.2744-02	.6414	.868	556.3
130	180.00	1.02000	646.00	.4040-01	.3910-01	.5120-01	.9130	.1760-02	.2744-02	.6414	.868	556.3
130	180.00	1.05000	647.00	.4040-01	.3910-01	.5120-01	.9130	.1760-02	.2744-02	.6414	.868	556.3
130	180.00	1.08000	648.00	.4040-01	.3910-01	.5120-01	.9130	.1760-02	.2744-02	.6414	.868	556.3
130	180.00	1.10000	649.00	.4040-01	.3910-01	.5120-01	.9130	.1760-02	.2744-02	.6414	.868	556.3
130	180.00	1.12000	650.00	.4040-01	.3910-01	.5120-01	.9130	.1760-02	.2744-02	.6414	.868	556.3
130	180.00	1.15000	651.00	.4040-01	.3910-01	.5120-01	.9130	.1760-02	.2744-02	.6414	.868	556.3
130	180.00	1.18000	652.00	.4040-01	.3910-01	.5120-01	.9130	.1760-02	.2744-02	.6414	.868	556.3
130	180.00	1.20000	653.00	.4040-01	.3910-01	.5120-01	.9130	.1760-02	.2744-02	.6414	.868	556.3
130	180.00	1.22000	654.00	.4040-01	.3910-01	.5120-01	.9130	.1760-02	.2744-02	.6414	.868	556.3
130	180.00	1.25000	655.00	.4040-01	.3910-01	.5120-01	.9130	.1760-02	.2744-02	.6414	.868	556.3
130	180.00	1.28000	656.00	.4040-01	.3910-01	.5120-01	.9130	.1760-02	.2744-02	.6414	.868	556.3
130	180.00	1.30000	657.00	.4040-01	.3910-01	.5120-01	.9130	.1760-02	.2744-02	.6414	.868	556.3
130	180.00	1.32000	658.00	.4040-01	.3910-01	.5120-01	.9130	.1760-02	.2744-02	.6414	.868	556.3
130	180.00	1.35000	659.00	.4040-01	.3910-01	.5120-01	.9130	.1760-02	.2744-02	.6414	.868	556.3
130	180.00	1.38000	660.00	.4040-01	.3910-01	.5120-01	.9130	.1760-02	.2744-02	.6414	.868	556.3
130	180.00	1.40000	661.00	.4040-01	.3910-01	.5120-01	.9130	.1760-02	.2744-02	.6414	.868	556.3
130	180.00	1.42000	662.00	.4040-01	.3910-01	.5120-01	.9130	.1760-02	.2744-02	.6414	.868	556.3
130	180.00	1.45000	663.00	.4040-01	.3910-01	.5120-01	.9130	.1760-02	.2744-02	.6414	.868	556.3
130	180.00	1.48000	664.00	.4040-01	.3910-01	.5120-01	.9130	.1760-02	.2744-02	.6414	.868	556.3
130	180.00	1.50000	665.00	.4040-01	.3910-01	.5120-01	.9130	.1760-02	.2744-02	.6414	.868	556.3
130	180.00	1.52000	666.00	.4040-01	.3910-01	.5120-01	.9130	.1760-02	.2744-02	.6414	.868	556.3
130	180.00	1.55000	667.00	.4040-01	.3910-01	.5120-01	.9130	.1760-02	.2744-02	.6414	.868	556.3
130	180.00	1.58000	668.00	.4040-01	.3910-01	.5120-01	.9130	.1760-02	.2744-02	.6414	.868	556.3
130	180.00	1.60000	669.00	.4040-01	.3910-01	.5120-01	.9130	.1760-02	.2744-02	.6414	.868	556.3
130	180.00	1.62000	670.00	.4040-01	.3910-01	.5120-01	.9130	.1760-02	.2744-02	.6414	.868	556.3
130	180.00	1.65000	671.00	.4040-01	.3910-01	.5120-01	.9130	.1760-02	.2744-02	.6414	.868	556.3
130	180.00	1.68000	672.00	.4040-01	.3910-01	.5120-01	.9130	.1760-02	.2744-02	.6414	.868	556.3
130	180.00	1.70000	673.00	.4040-01	.3910-01	.5120-01	.9130	.1760-02	.2744-02	.6414	.868	556.3
130	180.00	1.72000	674.00	.4040-01	.3910-01	.5120-01	.9130	.1760-02	.2744-02	.6414	.868	556.3
130	180.00	1.75000	675.00	.4040-01	.3910-01	.5120-01	.9130	.1760-02	.2744-02	.6414	.868	556.3
130	180.00	1.78000	676.00	.4040-01	.3910-01	.5120-01	.9130	.1760-02	.2744-02	.6414	.868	556.3
130	180.00	1.80000	677.00	.4040-01	.3910-01	.5120-01	.9130	.1760-02	.2744-02	.6414	.868	556.3
130	180.00	1.82000	678.00	.4040-01	.3910-01	.5120-01	.9130	.1760-02	.2744-02	.6414	.868	556.3
130	180.00	1.85000	679.00	.4040-01	.3910-01	.5120-01	.9130	.1760-02	.2744-02	.6414	.868	556.3
130	180.00	1.88000	680.00	.4040-01	.3910-01	.5120-01	.9130	.1760-02	.2744-02	.6414	.868	556.3
130	180.00	1.90000	681.00	.4040-01	.3910-01	.5120-01	.9130	.1760-02	.2744-02	.6414	.868	556.3
130	180.00	1.92000	682.00	.4040-01	.3910-01	.5120-01	.9130	.1760-02	.2744-02	.6414	.868	556.3
130	180.00	1.95000	683.00	.4040-01	.3910-01	.5120-01	.9130	.1760-02	.2744-02	.6414	.868	556.3
130	180.00	1.98000	684.00	.4040-01	.3910-01	.5120-01	.9130	.1760-02	.2744-02	.6414	.868	556.3
130	180.00	2.00000	685.00	.4040-01	.3910-01	.5120-01	.9130	.1760-02	.2744-02	.6414	.868	556.3

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F29)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	STNDT DEG. R /SEC	TW DEG. R
130	191.25	.92600	683.00	.1560-01	.1170-01	.2080-01	.9130	.5231-03	.9308-03	.7700-01	.5500	593.7
130	191.25	.95000	684.00	.6110-01	.4920-01	.7440-01	.9130	.2202-02	.3331-02	.4180	3.017	550.7
130	197.00	.33000	685.00	.3350-01	.2710-01	.4060-01	.9130	.1214-02	.1817-02	.2360	1.584	546.7
130	197.00	.34000	686.00	.3210-01	.2590-01	.3890-01	.9130	.1160-02	.1739-02	.2240	1.508	547.3
130	197.00	.35000	687.00	.3390-01	.2740-01	.4110-01	.9130	.1227-02	.1840-02	.2370	1.595	547.4
130	197.00	.36000	688.00	.3680-01	.2980-01	.4470-01	.9130	.1332-02	.2001-02	.2570	1.724	548.1
130	197.00	.37000	689.00	.3590-01	.2900-01	.4360-01	.9130	.1299-02	.1950-02	.2500	1.683	547.9
130	197.00	.37500	690.00	.4260-01	.3430-01	.5180-01	.9130	.1537-02	.2317-02	.2940	1.980	549.4
130	197.00	.50000	691.00	.1496	.1145	.1937	.9130	.5123-02	.8666-02	.8070	5.329	583.2
130	197.00	.60000	692.00	.9670-01	.7690-01	.1195	.9130	.3439-02	.5346-02	.6210	3.980	560.1
130	197.00	.70000	693.00	.8020-01	.6290-01	.1008	.9130	.2616-02	.4509-02	.4830	3.243	569.1
130	197.00	.80000	694.00	.3180-01	.2550-01	.3900-01	.9130	.1140-02	.1746-02	.2110	1.323	555.2
130	197.00	.87000	695.00	.5820-01	.4540-01	.7340-01	.9130	.2033-02	.3283-02	.3440	2.166	571.5
130	197.00	.92600	696.00	.2150-01	.1600-01	.2880-01	.9130	.7157-03	.1289-02	.1040	.7400	596.0
130	209.80	.15000-01	697.00	.6700-01	.5420-01	.8140-01	.9130	.2424-02	.3641-02	.4670	3.206	548.0
131	209.80	.30000-01	698.00	.1881	.1507	.1929	.9450	.6745-02	.8631-02	1.259	8.528	554 9
131	209.80	.50000-01	699.00	.3160	.2502	.3331	.9402	.1120-01	.1491-0	1.992	12.56	563.5
131	209.80	.70000-01	700.00	.2798	.2182	.3075	.9341	.9763-02	.1376-01	1.643	10.96	573.3
131	209.80	.10000+00	701.00	.1958	.1547	.2241	.9262	.6921-02	.1003-01	1.222	7.716	565.0
131	209.80	.15000	702.00	.7880-01	.6350-01	.9370-01	.9169	.2840-02	.4194-02	.5430	3.874	550.5
131	209.80	.20000	703.00	.3250-01	.2650-01	.3910-01	.9130	.1185-02	.1748-02	.2370	1.583	541.4
131	209.80	.30000	704.00	.3200-01	.2600-01	.3850-01	.9130	.1162-02	.1724-02	.2300	1.632	543.6
131	209.80	.35000	705.00	.3570-01	.2900-01	.4310-01	.9130	.1298-02	.1931-02	.2560	1.753	544.5
131	209.80	.37500	706.00	.4380-01	.3540-01	.5310-01	.9130	.1585-02	.2375-02	.3070	2.108	547.7
131	209.80	.50000	707.00	.7750-01	.6210-01	.9470-01	.9130	.2781-02	.4239-02	.5210	3.556	554.0
131	209.80	.60000	708.00	.5570-01	.4520-01	.6730-01	.9130	.2024-02	.3012-02	.3980	2.542	544.7
131	209.80	.70000	709.00	.4480-01	.3630-01	.5420-01	.9130	.1624-02	.2426-02	.3170	2.021	546.3
131	209.80	.80000	710.00	.3600-01	.2930-01	.4340-01	.9130	.1311-02	.1944-02	.2600	1.622	543.3
131	209.80	.87000	711.00	.4170-01	.3370-01	.5060-01	.9130	.1509-02	.2266-02	.2910	1.839	548.5
131	209.80	.92600	712.00	.6160-01	.4870-01	.7660-01	.9130	.2181-02	.3429-02	.3870	2.787	564.2
131	217.70	.15000-01	713.00	.6800-01	.5550-01	.8160-01	.9130	.2482-02	.3652-02	.5000	3.455	540.1
131	217.70	.30000-01	714.00	.1791	.1435	.1841	.9446	.6422-02	.8238-02	1.197	8.113	555.0
131	217.70	.50000-01	715.00	.2872	.2287	.3030	.9398	.1023-01	.1356-01	1.861	12.06	559.6
131	217.70	.70000-01	716.00	.3189	.2454	.3534	.9337	.1098-01	.1581-01	1.768	11.86	580.5
131	217.70	.10000+00	717.00	.1909	.1522	.2176	.9259	.6809-02	.9737-02	1.344	8.023	558.7
131	217.70	.15000	718.00	.7950-01	.6400-01	.9490-01	.9166	.2866-02	.4246-02	.5450	3.978	551.3
131	217.70	.20000	719.00	.3730-01	.3040-01	.4480-01	.9130	.1360-02	.2006-02	.2730	1.843	541.1
131	217.70	.30000	720.00	.3250-01	.2640-01	.3930-01	.9130	.1181-02	.1759-02	.2320	1.662	545.1
131	217.70	.35000	721.00	.4120-01	.3340-01	.4990-01	.9130	.1496-02	.2231-02	.2930	2.033	545.6
131	217.70	.37500	722.00	.5400-01	.4360-01	.6550-01	.9130	.1953-02	.2933-02	.3770	2.610	548.5
131	217.70	.50000	723.00	.7200-01	.5800-01	.8770-01	.9130	.2598-02	.3923-02	.4960	3.421	550.6
131	217.70	.60000	724.00	.4530-01	.3680-01	.5460-01	.9130	.1648-02	.2442-02	.3270	2.096	543.0
131	217.70	.70000	725.00	.2510-01	.2040-01	.3020-01	.9130	.9123-03	.1352-02	.1810	1.152	543.1

(RV7F29)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
131	217.70	.80000	726.00	.2050-01	.1660-01	.2460-01	.9130	.7450-03	.1102-02	.1480	.9350	542.3
131	217.70	.87900	727.00	.2980-01	.2420-01	.3610-01	.9130	.1083-02	.1514-02	.2120	1.357	545.6
131	217.70	.92600	728.00	.8220-01	.6520-01	.1018	.9130	.2919-02	.4555-02	.5240	3.783	561.9

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = 10.00 BETA = .0000 GRIT = 4.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
171	4.520	5.028	9.960	.0000	.0000	96.70	.3260	665.0	130.8	4.662	2533.	.2091-03
172	4.520	5.046	9.970	.0000	.0000	97.00	.3270	665.0	130.8	4.675	2533.	.2097-03
173	4.520	5.048	9.970	.0000	.0000	97.10	.3270	665.0	130.8	4.678	2533.	.2099-03
193	4.520	5.064	9.990	.0000	.0000	97.10	.3270	664.0	130.5	4.680	2531.	.2103-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
171	.1053-06	.4729-01	.1143-01
172	.1053-06	.4736-01	.1141-01
173	.1053-06	.4738-01	.1141-01
193	.1051-06	.4737-01	.1139-01

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
172	.00000	.30000-02	730.00	.5316	.3423	.3893	.9830	.1621-01	.1844-01	1.514	10.27	571.7
172	.00000	.10300-01	731.00	.2352	.1701	.2991	.9221	.8056-02	.1417-01	.9680	6.673	544.9
172	.00000	.15000-01	732.00	.2133	.1553	.2693	.9221	.7356-02	.1275-01	.9010	6.140	542.6
172	.00000	.25000-01	734.00	.5928	.3592	.4363	.9776	.1701-01	.2066-01	1.435	9.599	580.7
172	.00000	.30000-01	735.00	1.009	.5238	.6821	.9759	.2481-01	.3230-01	1.715	11.45	595.9
172	.00000	.40000-01	737.00	.6178	.3864	.4784	.9743	.1830-01	.2265-01	1.625	10.45	576.3
172	.00000	.45000-01	738.00	.5893	.3738	.4679	.9725	.1770-01	.2216-01	1.610	10.51	574.1
172	.00000	.60000-01	739.00	.5100	.3182	.4227	.9671	.1507-01	.2002-01	1.332	8.821	576.6
172	.00000	.70000-01	740.00	.4410	.2805	.3815	.9636	.1328-01	.1807-01	1.213	8.094	573.7
172	.00000	.80000-01	741.00	.3592	.2333	.3235	.9602	.1105-01	.1532-01	1.048	7.531	570.2
172	.00000	.10000+00	742.00	.3376	.2281	.3260	.9537	.1080-01	.1544-01	1.107	7.340	562.5
172	.00000	.12500	743.00	.2821	.1870	.2935	.9462	.8857-02	.1390-01	.8740	6.290	566.4
172	.00000	.15000	744.00	.2452	.1675	.2720	.9394	.7931-02	.1288-01	.8320	5.746	560.1
172	.00000	.17500	745.00	.1737	.1226	.2017	.9334	.5805-02	.9552-02	.6560	4.914	552.1
172	.00000	.20000	746.00	.1276	.9170-01	.1538	.9283	.4344-02	.7281-02	.5140	3.674	546.8
172	.00000	.21500	747.00	.1076	.7760-01	.1326	.9256	.3675-02	.6277-02	.4380	3.040	545.8

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
172	.00000	.23000	748.00	.9540-01	.6880-01	.1201	.9234	.3257-02	.5689-02	.3880	2.870	545.9
172	.00000	.24000	749.00	.8560-01	.6170-01	.1093	.9221	.2923-02	.5176-02	.3480	2.625	546.0
172	.00000	.25000	750.00	.4720-01	.3430-01	.5980-01	.9221	.1622-02	.2830-02	.1970	1.596	543.6
172	.00000	.30000	751.00	.8720-01	.6330-01	.1104	.9221	.2997-02	.5230-02	.3640	2.392	543.6
172	.00000	.35000	752.00	.8320-01	.6090-01	.1046	.9221	.2886-02	.4952-02	.3590	2.273	540.8
172	.00000	.40000	753.00	.7730-01	.5670-01	.9710-01	.9221	.2684-02	.4600-02	.3340	2.154	540.6
172	.00000	.50000	754.00	.8300-01	.6010-01	.1054	.9221	.2845-02	.4991-02	.3430	2.245	544.5
172	.00000	.60000	755.00	.6850-01	.5040-01	.8570-01	.9221	.2389-02	.4058-02	.3010	1.937	539.1
172	.00000	.70000	756.00	.5800-01	.4250-01	.7280-01	.9221	.2014-02	.3449-02	.2510	1.662	540.5
172	.00000	.80000	757.00	.6020-01	.4430-01	.7540-01	.9221	.2096-02	.3573-02	.2630	1.654	539.6
172	.00000	.90000	758.00	.2380-01	.1740-01	.3000-01	.9221	.8224-03	.1422-02	.1010	.6550	542.1
172	55.000	.22000	759.00	.7220-01	.5290-01	.9120-01	.9215	.2504-02	.4319-02	.3110	2.322	540.8
172	55.000	.25000	760.00	.3700-01	.2730-01	.4730-01	.9196	.1291-02	.2241-02	.1630	1.280	539.0
172	55.000	.27000	761.00	.5320-01	.3880-01	.6880-01	.9196	.1836-02	.3257-02	.2250	1.677	542.5
172	55.000	.30000	762.00	.6810-01	.4990-01	.8740-01	.9196	.2363-02	.4137-02	.2950	1.777	540.4
172	55.000	.32000	763.00	.8640-01	.6310-01	.1113	.9196	.2988-02	.5273-02	.3690	2.187	541.7
172	55.000	.34000	764.00	.1144	.8300-01	.1486	.9196	.3929-02	.7035-02	.4760	2.826	544.0
172	55.000	.36000	765.00	.1093	.7970-01	.1412	.9196	.3773-02	.6687-02	.4630	2.789	542.4
172	55.000	.38000	766.00	.9190-01	.6720-01	.1183	.9196	.3180-02	.5601-02	.3930	2.397	541.4
172	55.000	.40000	767.00	.1332	.9600-01	.1742	.9196	.4544-02	.8250-02	.5410	3.380	546.1
172	67.500	.23000	768.00	.5650-01	.4150-01	.7250-01	.9196	.1966-02	.3432-02	.2460	1.838	539.8
172	67.500	.25000	769.00	.2730-01	.2010-01	.3500-01	.9190	.9529-03	.1655-02	.1210	.9460	539.0
172	67.500	.27000	770.00	.4940-01	.3610-01	.6380-01	.9190	.1712-02	.3023-02	.2130	1.556	540.8
172	67.500	.29000	771.00	.5480-01	.4030-01	.7060-01	.9190	.1910-02	.3342-02	.2400	1.494	539.3
172	67.500	.30000	772.00	.8710-01	.6320-01	.1137	.9190	.2993-02	.5385-02	.3630	2.224	543.7
172	67.500	.31000	773.00	.1051	.7600-01	.1379	.9190	.3598-02	.6531-02	.4320	2.620	545.0
172	67.500	.32000	774.00	.1206	.8720-01	.1582	.9190	.4131-02	.7494-02	.4960	2.986	544.9
172	67.500	.32500	775.00	.1203	.8690-01	.1581	.9190	.4115-02	.7489-02	.4920	2.970	545.4
172	67.500	.33000	776.00	.1353	.9750-01	.1781	.9190	.4619-02	.8436-02	.5500	3.329	545.9
172	67.500	.33500	777.00	.1516	.1084	.2016	.9190	.5132-02	.9545-02	.5980	3.614	548.5
172	67.500	.34000	778.00	.1685	.1197	.2257	.9190	.5670-02	.1069-01	.6510	3.928	550.2
172	67.500	.34500	779.00	.1854	.1303	.2513	.9190	.6172-02	.1190-01	.6910	4.178	553.0
172	67.500	.35000	780.00	.1826	.1278	.2490	.9190	.6052-02	.1179-01	.6700	4.058	554.3
172	67.500	.35500	781.00	.1968	.1358	.2730	.9190	.6433-02	.1293-01	.6900	4.183	557.8
172	67.500	.36000	782.00	.2086	.1447	.2874	.9190	.6851-02	.1361-01	.7440	4.510	556.5
172	67.500	.36500	783.00	.1940	.1358	.2644	.9190	.6431-02	.1252-01	.7130	4.317	554.2
172	67.500	.37000	784.00	.1896	.1334	.2568	.9190	.6315-02	.1216-01	.7080	4.314	552.9
172	67.500	.37500	785.00	.1758	.1238	.2380	.9190	.5861-02	.1127-01	.6590	4.043	552.8
172	67.500	.38000	786.00	.1737	.1220	.2357	.9190	.5778-02	.1116-01	.6460	3.977	553.3
172	67.500	.39000	787.00	.1670	.1180	.2250	.9190	.5589-02	.1065-01	.6340	3.917	551.7
172	67.500	.39000	787.00	.1670	.1180	.2250	.9190	.5311-02	.9868-02	.6200	3.871	548.3
173	67.500	.40000	788.00	.1568	.1122	.2084	.9190	.2975-02	.5386-02	.3580	2.300	544.6
173	67.500	.50000	789.00	.8680-01	.6280-01	.1137	.9190	.3226-02	.5711-02	.4000	2.630	541.2
173	67.500	.60000	790.00	.9310-01	.6810-01	.1206	.9190					

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F30)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
193	67.500	.70000	791.00	.3560-01	.2640-01	.4560-01	.9183	.1250-02	.2160-02	.1610	1.143	535.7
193	67.500	.80000	792.00	.5130-01	.3840-01	.6520-01	.9183	.1821-02	.3089-02	.2410	1.525	532.3
193	67.500	.90000	793.00	.5600-01	.4130-01	.7210-01	.9183	.1959-02	.3416-02	.2490	1.615	537.3
193	78.000	.27000	794.00	.3120-01	.2320-01	.3990-01	.9185	.1098-02	.1891-02	.1420	1.017	535.4
193	78.000	.29000	795.00	.6860-01	.5090-01	.8810-01	.9185	.2409-02	.4173-02	.3090	1.914	536.3
173	78.000	.30000	796.00	.1474	.1053	.1969	.9185	.4990-02	.9331-02	.5810	3.522	548.6
173	78.000	.31000	797.00	.1882	.1310	.2598	.9185	.6207-02	.1231-01	.6790	4.096	555.8
173	78.000	.32000	798.00	.2428	.1635	.3496	.9185	.7745-02	.1656-01	.7890	4.715	563.3
173	78.000	.32500	799.00	.2658	.1770	.3886	.9185	.8385-02	.1841-01	.8350	4.999	565.6
173	78.000	.33000	800.00	.3097	.2044	.4586	.9185	.9684-02	.2172-01	.9470	5.667	567.3
173	78.000	.33500	801.00	.3682	.2375	.5633	.9185	.1125-01	.2669-01	1.055	6.300	571.4
173	78.000	.34000	802.00	.3628	.2344	.5537	.9185	.1111-01	.2623-01	1.044	6.236	571.1
173	78.000	.34500	803.00	.3261	.2169	.4775	.9185	.1027-01	.2262-01	1.020	6.127	565.8
173	78.000	.35000	804.00	.2995	.2043	.4238	.9185	.9681-02	.2008-01	1.014	6.102	560.5
173	78.000	.35500	805.00	.2609	.1810	.3613	.9185	.8575-02	.1712-01	.9320	5.620	556.5
173	78.000	.36000	806.00	.2532	.1768	.3478	.9185	.8377-02	.1648-01	.9240	5.592	554.9
173	78.000	.36500	807.00	.1995	.1398	.2730	.9185	.6621-02	.1294-01	.7350	4.465	554.1
173	78.000	.37000	808.00	.1751	.1237	.2371	.9185	.5862-02	.1124-01	.6650	4.051	551.8
173	78.000	.37500	809.00	.1614	.1147	.2170	.9185	.5433-02	.1028-01	.6240	3.810	550.2
173	78.000	.38000	810.00	.1388	.9920-01	.1853	.9185	.4699-02	.8780-02	.5480	3.366	548.5
173	78.000	.39000	811.00	.1314	.9460-01	.1741	.9185	.4480-02	.8250-02	.5320	3.276	546.5
173	78.000	.40000	812.00	.1102	.7980-01	.1450	.9185	.3782-02	.6869-02	.4560	2.815	544.5
193	90.000	.40000-01	985.00	.3973	.2800	.3777	.9562	.1326-01	.1789-01	1.491	9.677	551.5
193	90.000	.50000-01	986.00	.4097	.2867	.4003	.9527	.1358-01	.1896-01	1.501	9.676	553.4
193	90.000	.60000-01	987.00	.3814	.2569	.3835	.9494	.1217-01	.1817-01	1.238	8.084	562.2
193	90.000	.70000-01	988.00	.3466	.2372	.3589	.9463	.1124-01	.1700-01	1.182	7.898	558.7
193	90.000	.80000-01	989.00	.2975	.2061	.3164	.9433	.9762-02	.1499-01	1.055	7.437	555.9
193	90.000	.10000+00	990.00	.2327	.1664	.2579	.9378	.7884-02	.1222-01	.9180	5.990	547.5
193	90.000	.15000	991.00	.1014	.7380-01	.1228	.9268	.3494-02	.5817-02	.4250	3.128	542.3
173	90.000	.20000	813.00	.3750-01	.2780-01	.4790-01	.9184	.1319-02	.2272-02	.1710	1.247	535.8
173	90.000	.24000	814.00	.3060-01	.2280-01	.3920-01	.9183	.1078-02	.1859-02	.1400	1.135	535.8
173	90.000	.27000	816.00	.3240-01	.2400-01	.4160-01	.9183	.1138-02	.1971-02	.1460	1.046	536.6
173	90.000	.29000	817.00	.1614	.1121	.2237	.9183	.5311-02	.1060-01	.5780	3.578	556.2
173	90.000	.30000	818.00	.2602	.1701	.3917	.9183	.8061-02	.1856-01	.7740	4.680	569.1
173	90.000	.31000	819.00	.2887	.1922	.4235	.9183	.9105-02	.2007-01	.9060	5.439	565.7
173	90.000	.32000	820.00	.2795	.1864	.4090	.9183	.8832-02	.1933-01	.8820	5.282	565.3
173	90.000	.32500	821.00	.3203	.2127	.4717	.9183	.1008-01	.2235-01	.9970	5.955	566.2
173	90.000	.33000	822.00	.3853	.2485	.5920	.9183	.1177-01	.2805-01	1.102	6.582	571.5
173	90.000	.33500	823.00	.4101	.2565	.6611	.9183	.1215-01	.3132-01	1.079	6.446	576.4
173	90.000	.34000	824.00	.4131	.2670	.6322	.9183	.1265-01	.2995-01	1.190	7.090	571.1
173	90.000	.34500	825.00	.4599	.2894	.7340	.9183	.1371-01	.3477-01	1.230	7.331	575.4
173	90.000	.35000	826.00	.5396	.3032	1.067	.9183	.1436-01	.5058-01	1.090	6.452	589.3
173	90.000	.36000	828.00	.3981	.2512	.6329	.9183	.1190-01	.2999-01	1.072	6.373	575.1

(RV7F30)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAH/TO	TAH/TO	H(TO) BTU/ R FT2SEC	H(TAH) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
173	90.000	.36500	829.00	.2994	.2079	.4152	.9183	.9848-02	.1967-01	1.072	6.447	556.3
173	90.000	.37000	830.00	.1497	.1081	.1979	.9183	.5122-02	.9376-02	.6140	3.722	545.4
173	90.000	.37500	831.00	.1106	.8110-01	.1438	.9183	.3843-02	.6812-02	.4790	2.931	540.5
173	90.000	.38000	832.00	.7310-01	.5400-01	.9400-01	.9183	.2581-02	.4455-02	.3270	2.004	537.4
173	90.000	.39000	833.00	.6290-01	.4660-01	.8080-01	.9183	.2210-02	.3828-02	.2840	1.760	536.6
173	90.000	.40000	834.00	.6030-01	.4460-01	.7770-01	.9183	.2112-02	.3683-02	.2690	1.670	537.8
173	90.000	.50000	835.00	.5570-01	.4070-01	.7260-01	.9183	.1928-02	.3440-02	.2380	1.510	541.5
173	90.000	.60000	836.00	.5210-01	.3850-01	.6700-01	.9183	.1825-02	.3174-02	.2330	1.561	537.3
173	90.000	.70000	837.00	.4320-01	.3190-01	.5580-01	.9183	.1510-02	.2643-02	.1920	1.354	538.3
173	90.000	.80000	838.00	.5090-01	.3780-01	.6520-01	.9183	.1789-02	.3089-02	.2310	1.442	536.1
173	90.000	.90000	839.00	.7120-01	.5180-01	.9340-01	.9183	.2455-02	.4427-02	.2990	1.917	543.2
173	112.50	.23000	840.00	.2610-01	.1950-01	.3330-01	.9183	.9221-03	.1577-02	.1210	.9790	534.3
173	112.50	.25000	841.00	.2080-01	.1550-01	.2650-01	.9183	.7360-03	.1257-02	.9700-01	.7530	534.0
173	112.50	.30000	843.00	.4830-01	.3580-01	.6190-01	.9183	.1697-02	.2934-02	.2190	1.308	536.3
173	112.50	.33000	844.00	.1262	.9170-01	.1656	.9183	.4345-02	.7847-02	.5290	3.196	543.4
173	112.50	.35000	845.00	.9970-01	.7300-01	.1298	.9183	.3457-02	.6148-02	.4290	2.638	541.0
173	112.50	.37000	846.00	.4070-01	.3020-01	.5200-01	.9183	.1433-02	.2463-02	.1860	1.154	535.2
173	112.50	.40000	847.00	.1370-01	.1030-01	.1740-01	.9183	.4896-03	.8236-03	.6600-01	.4120	531.1
173	112.50	.45000	848.00	.1640-01	.1230-01	.2080-01	.9183	.5805-03	.9841-03	.7700-01	.4870	532.6
173	112.50	.50000	849.00	.2260-01	.1680-01	.2900-01	.9183	.7982-03	.1372-02	.1040	.6710	535.2
173	112.50	.55000	850.00	.3530-01	.2630-01	.4520-01	.9183	.1244-02	.2142-02	.1610	1.083	535.5
173	112.50	.60000	851.00	.4300-01	.3210-01	.5480-01	.9183	.1519-02	.2596-02	.1990	1.342	534.2
173	112.50	.65000	852.00	.5390-01	.4010-01	.6886-01	.9183	.1900-02	.3261-02	.2480	1.694	534.9
173	112.50	.70000	853.00	.4300-01	.3200-01	.5500-01	.9183	.1515-02	.2605-02	.1970	1.388	535.4
173	112.50	.75000	854.00	.3150-01	.2360-01	.4010-01	.9183	.1117-02	.1899-02	.1470	.9630	533.2
173	112.50	.80000	855.00	.3090-01	.2300-01	.3940-01	.9183	.1091-02	.1865-02	.1430	.9360	534.2
173	112.50	.90000	856.00	.6740-01	.4980-01	.8700-01	.9183	.2359-02	.4122-02	.3000	1.953	538.1
173	125.40	.84000	857.00	.4860-01	.3610-01	.6210-01	.9183	.1711-02	.2994-02	.2220	1.380	535.4
173	125.40	.85000	858.00	.5610-01	.4170-01	.7180-01	.9183	.1977-02	.3403-02	.2560	1.602	535.5
173	125.40	.86000	859.00	.6610-01	.4910-01	.8470-01	.9183	.2325-02	.4015-02	.3000	1.891	536.0
173	125.40	.87000	860.00	.6360-01	.4720-01	.8160-01	.9183	.2236-02	.3868-02	.2880	1.820	536.4
173	125.40	.88000	861.00	.6500-01	.4810-01	.8350-01	.9183	.2280-02	.3954-02	.2930	1.848	536.8
173	125.40	.89000	862.00	.5930-01	.4380-01	.7660-01	.9183	.2075-02	.3628-02	.2640	1.673	538.2
173	125.40	.90000	863.00	.4880-01	.3610-01	.6270-01	.9183	.1712-02	.2973-02	.2190	1.402	537.0
173	125.40	.91000	864.00	.5120-01	.3790-01	.6590-01	.9183	.1794-02	.3123-02	.2290	1.673	537.5
173	125.40	.92600	865.00	.9120-01	.6580-01	.1207	.9183	.3118-02	.5719-02	.3730	2.702	545.7
173	129.30	.80000	866.00	.3760-01	.2800-01	.4800-01	.9183	.1328-02	.2276-02	.1730	1.097	534.6
173	129.30	.81000	867.00	.3900-01	.2900-01	.4980-01	.9183	.1375-02	.2364-02	.1790	1.123	535.2
173	129.30	.82000	868.00	.3590-01	.2670-01	.4580-01	.9183	.1264-02	.2172-02	.1640	1.032	535.2
173	129.30	.83000	869.00	.3560-01	.2650-01	.4570-01	.9183	.1252-02	.2165-02	.1610	1.016	536.3
173	135.00	.40000-01	870.00	.2517	.1803	.2612	.9454	.9544-02	.1237-01	1.003	6.444	547.8
173	135.00	.50000-01	871.00	.3014	.2154	.3214	.9422	.1020-01	.1523-01	1.189	7.597	548.6
173	135.00	.60000-01	872.00	.2535	.1777	.2793	.9392	.8421-02	.1323-01	.9370	6.199	553.9

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F30)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
173	135.00	.70000-01	873.00	.2159	.1529	.2432	.9364	.7245-02	.1152-01	.8260	5.606	551.2
173	135.00	.10000+00	875.00	.1463	.1067	.1730	.9292	.5057-02	.8195-02	.6220	4.093	542.1
173	135.00	.15000	876.00	.7670-01	.5660-01	.9640-01	.9212	.2684-02	.4568-02	.3410	2.508	538.0
173	135.00	.20000	877.00	.3060-01	.2290-01	.3880-01	.9183	.1084-02	.1838-02	.1440	.9750	532.7
173	135.00	.35000	878.00	.3100-01	.2320-01	.3930-01	.9183	.1098-02	.1863-02	.1450	.9090	532.9
173	135.00	.40000	879.00	.3830-01	.2860-01	.4880-01	.9183	.1356-02	.2311-02	.1780	1.139	533.6
173	135.00	.50000	880.00	.2160-01	.1610-01	.2760-01	.9183	.7627-03	.1309-02	.9900-01	.6860	535.0
173	135.00	.55000	881.00	.2[illegible]-01	.1940-01	.3340-01	.9183	.9210-03	.1582-02	.1200	.8030	535.0
173	135.00	.60000	882.00	.[illegible]0-01	.2670-01	.4570-01	.9183	.1265-02	.2166-02	.1650	1.118	534.5
173	135.00	.65000	883.00	.[illegible]70-01	.3040-01	.5200-01	.9183	.1438-02	.2463-02	.1880	1.290	534.6
173	135.00	.70000	884.00	.3280-01	.2430-01	.4210-01	.9183	.1153-02	.1993-02	.1[illegible]90	1.063	536.2
173	135.00	.75000	885.00	.2140-01	.1590-01	.2750-01	.9183	.7537-03	.1303-02	.9700-01	.6160	536.2
193	135.00	.84000	887.00	.8670-01	.6440-01	.1100	.9196	.3050-02	.5211-02	.3930	2.484	535.7
193	135.00	.85000	888.00	.3410-01	.2530-01	.4390-01	.9183	.1197-02	.2080-02	.1530	.9740	536.3
193	135.00	.86000	889.00	.4650-01	.3450-01	.5980-01	.9183	.1633-02	.2833-02	.2090	1.329	535.9
193	135.00	.87000	890.00	.5200-01	.3850-01	.6680-01	.9183	.1823-02	.3164-02	.2330	1.492	535.9
193	135.00	.89000	892.00	.5820-01	.4280-01	.7540-01	.9183	.2028-02	.3572-02	.2550	1.663	538.4
193	135.00	.90000	893.00	.4900-01	.3590-01	.6360-01	.9183	.1701-02	.3014-02	.2120	1.399	539.4
193	135.00	.91000	894.00	.2560-01	.1880-01	.3320-01	.9183	.8917-03	.1574-02	.1120	.8170	538.8
193	135.00	.92600	895.00	.6140-01	.4430-01	.8140-01	.9183	.2099-02	.3855-02	.2500	1.819	544.9
193	135.00	.95000	896.00	.6720-01	.4960-01	.8650-01	.9183	.2352-02	.4100-02	.2990	2.172	536.7
193	142.30	.42000	897.00	.8180-01	.6050-01	.1046	.9183	.2867-02	.4957-02	.3690	2.386	535.3
193	142.30	.43500	898.00	.7450-01	.5550-01	.9520-01	.9183	.2629-02	.4508-02	.3420	2.151	533.9
193	142.30	.45000	899.00	.6190-01	.4620-01	.7900-01	.9183	.2189-02	.3742-02	.2860	1.884	533.3
193	142.30	.50000	900.00	.3720-01	.2790-01	.4740-01	.9183	.1320-02	.2243-02	.1740	1.168	532.1
193	142.30	.60000	901.00	.3710-01	.2790-01	.4690-01	.9183	.1322-02	.2221-02	.1770	1.187	529.9
193	142.30	.70000	902.00	.3940-01	.2940-01	.5030-01	.9183	.1392-02	.2384-02	.1820	1.247	533.5
193	142.30	.80000	903.00	.4530-01	.3430-01	.5770-01	.9183	.1605-02	.2731-02	.2110	1.351	532.5
193	142.30	.87000	904.00	.4850-01	.3560-01	.6280-01	.9183	.1689-02	.2973-02	.2120	1.346	538.4
193	154.98	.42000	905.00	.1372	.1006	.1784	.9183	.4768-02	.8450-02	.5930	3.841	539.5
193	154.98	.43500	906.00	.1031	.7580-01	.1335	.9183	.3593-02	.6323-02	.4510	2.941	538.3
193	154.98	.45000	907.00	.9070-01	.6690-01	.1171	.9183	.3167-02	.5546-02	.4010	2.626	537.5
193	154.98	.50000	908.00	.4950-01	.3680-01	.6350-01	.9183	.1742-02	.3006-02	.2250	1.617	535.0
193	154.98	.93500	913.00	.1586	.1139	.2112	.9183	.5394-02	.1001-01	.6350	4.616	546.3
193	154.98	.94500	914.00	.1018	.7400-01	.1337	.9183	.3505-02	.6333-02	.4260	3.071	542.5
193	157.50	.80000-01	919.00	.1694	.1239	.1964	.9313	.5867-02	.9305-02	.7250	4.961	540.5
193	157.50	.20000	922.00	.2430-01	.1830-01	.3070-01	.9183	.8652-03	.1452-02	.1160	.7800	529.8
193	157.50	.42000	923.00	.1038	.7680-01	.1336	.9183	.3638-02	.6330-02	.4640	3.044	536.4
193	157.50	.43500	924.00	.9930-01	.7350-01	.1278	.9183	.3480-02	.6053-02	.4440	2.921	536.4
193	157.50	.45000	925.00	.9440-01	.6940-01	.1224	.9183	.3288-02	.5800-02	.4120	2.729	538.7
193	157.50	.85000	926.00	.4300-01	.3170-01	.5550-01	.9183	.1503-02	.2629-02	.1900	1.237	537.3
193	157.50	.86000	927.00	.4640-01	.3420-01	.6000-01	.9183	.1621-02	.2842-02	.2050	1.334	537.6
193	157.50	.87000	928.00	.5430-01	.3980-01	.7060-01	.9183	.1886-02	.3342-02	.2350	1.532	539.5

ORIGINAL PAGE IS
OF POOR QUALITY

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F30)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
193	157.50	.88000	929.00	.6380-01	.4650-01	.8350-01	.9183	.2204-02	.3954-02	.2700	1.771	541.4
193	157.50	.89000	930.00	.7510-01	.5450-01	.9890-01	.9183	.2582-02	.4683-02	.3120	2.059	543.0
193	157.50	.90000	931.00	.7920-01	.5740-01	.1042	.9183	.2720-02	.4937-02	.3280	2.218	543.2
193	157.50	.91000	932.00	.6940-01	.5040-01	.9110-01	.9183	.2387-02	.4315-02	.2900	2.127	542.5
193	157.50	.92600	933.00	.1284	.9170-01	.1720	.9183	.4344-02	.8146-02	.5050	3.681	547.7
193	163.12	.41500	934.00	.1088	.8000-01	.1409	.9183	.3790-02	.6676-02	.4760	3.099	538.4
193	163.12	.42000	935.00	.1260	.9210-01	.1644	.9183	.4364-02	.7788-02	.5390	3.535	540.6
193	163.12	.43000	937.00	.1440	.1032	.1921	.9183	.4889-02	.9103-02	.5730	3.760	546.8
193	163.12	.44000	938.00	.1118	.8150-01	.1463	.9183	.3860-02	.6931-02	.4730	3.102	541.5
193	163.12	.44500	939.00	.9300-01	.6820-01	.1208	.9183	.3231-02	.5724-02	.4020	2.682	539.4
193	163.12	.45000	940.00	.8020-01	.5910-01	.1038	.9183	.2799-02	.4917-02	.3520	2.351	538.0
193	163.12	.50000	941.00	.8610-01	.6320-01	.1120	.9183	.2992-02	.5304-02	.3720	2.535	539.5
193	163.12	.60000	942.00	.6720-01	.5020-01	.8550-01	.9183	.2379-02	.4050-02	.3130	2.032	532.5
193	163.12	.70000	943.00	.3140-01	.2340-01	.4000-01	.9183	.1110-02	.1896-02	.1450	1.004	533.1
193	163.12	.80000	944.00	.4660-01	.3460-01	.5980-01	.9183	.1637-02	.2831-02	.2110	1.382	535.3
193	168.00	.35000	945.00	.4290-01	.3220-01	.5440-01	.9183	.1525-02	.2576-02	.2030	1.296	531.0
193	168.00	.36000	946.00	.5360-01	.4010-01	.6800-01	.9183	.1901-02	.3222-02	.2510	1.611	531.7
193	168.00	.37000	947.00	.7170-01	.5360-01	.9130-01	.9183	.2537-02	.4323-02	.3330	2.138	532.7
193	168.00	.37500	948.00	.8010-01	.5960-01	.1025	.9183	.2822-02	.4853-02	.3660	2.346	534.3
193	168.00	.38500	950.00	.9420-01	.6990-01	.1208	.9183	.3311-02	.5721-02	.4260	2.766	535.2
193	168.00	.39000	951.00	.1241	.9120-01	.1609	.9183	.4321-02	.7623-02	.5410	3.524	538.7
193	168.00	.39500	952.00	.1418	.1035	.1851	.9183	.4905-02	.8769-02	.6040	3.872	540.8
193	168.00	.40000	953.00	.1492	.1088	.1952	.9183	.5152-02	.9248-02	.6310	4.117	541.5
193	168.00	.40500	954.00	.1518	.1101	.1997	.9183	.5215-02	.9459-02	.6300	4.121	543.1
193	168.00	.41000	955.00	.1474	.1065	.1948	.9183	.5047-02	.9227-02	.6040	3.949	544.2
193	168.00	.41500	956.00	.1603	.1156	.2123	.9183	.5477-02	.1006-01	.6520	4.272	544.9
193	168.00	.42000	957.00	.1649	.1185	.2193	.9183	.5614-02	.1039-01	.6630	4.350	545.9
193	168.00	.42500	958.00	.1254	.9100-01	.1648	.9183	.4312-02	.7806-02	.5220	3.436	542.8
193	168.00	.43000	959.00	.1850	.1292	.2546	.9183	.6122-02	.1206-01	.6740	4.397	553.8
193	168.00	.44000	960.00	.1446	.1042	.1917	.9183	.4937-02	.9089-02	.5870	3.855	545.1
193	168.00	.44500	961.00	.1221	.8950-01	.1588	.9183	.4238-02	.7524-02	.5260	3.466	539.8
193	168.00	.45000	962.00	.8040-01	.5930-01	.1038	.9183	.2808-02	.4919-02	.3550	2.355	537.5
193	168.00	.45500	963.00	.7230-01	.5350-01	.9320-01	.9183	.2534-02	.4413-02	.3230	2.143	536.5
193	168.00	.46000	964.00	.9750-01	.7190-01	.1260	.9183	.3406-02	.5970-02	.4300	2.870	537.6
193	168.00	.47000	965.00	.1123	.8180-01	.1472	.9183	.3875-02	.6972-02	.4730	3.160	541.8
193	168.00	.48000	966.00	.1207	.8720-01	.1594	.9183	.4133-02	.7549-02	.4950	3.334	544.1
193	168.00	.49000	967.00	.1156	.8490-01	.1501	.9183	.4020-02	.7111-02	.5020	3.384	539.2
193	168.00	.85000	968.00	.5210-01	.3830-01	.6740-01	.9183	.1817-02	.3195-02	.2280	1.488	538.2
193	168.00	.86000	969.00	.6330-01	.4640-01	.8230-01	.9183	.2199-02	.3898-02	.2740	1.786	539.5
193	168.00	.87000	970.00	.6600-01	.4810-01	.8620-01	.9183	.2281-02	.4083-02	.2800	1.833	541.1
193	168.00	.88000	971.00	.7250-01	.5280-01	.9500-01	.9183	.2503-02	.4499-02	.3060	2.007	541.7
193	168.00	.89000	972.00	.8640-01	.6260-01	.1137	.9183	.2967-02	.5386-02	.3580	2.385	543.2
193	168.00	.90000	973.00	.7860-01	.5690-01	.1039	.9183	.2694-02	.4921-02	.3230	2.200	544.1

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F30)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
193	168.00	.91000	974.00	.8400-01	.6090-01	.1106	.9183	.2886-02	.5238-02	.3490	2.549	543.1
193	168.00	.92600	975.00	.1705	.1212	.2296	.9183	.5742-02	.1088-01	.6600	4.775	549.1
193	168.00	.95000	976.00	.4150-01	.3070-01	.5360-01	.9183	.1454-02	.2537-02	.1850	1.337	536.9
193	180.00	.20000-01	982.00	.9510-01	.7120-01	.9770-01	.9461	.3371-02	.4626-02	.4450	3.115	532.0
193	180.00	.25000-01	983.00	.1178	.8760-01	.1226	.9442	.4151-02	.5810-02	.5380	3.743	534.3
193	180.00	.30000-01	984.00	.1742	.1282	.1838	.9427	.6073-02	.8705-02	.7640	5.266	538.2
171	180.00	.40000-01	600.00	.2104	.1533	.2247	.9414	.7250-02	.1063-01	.8890	5.729	542.7
171	180.00	.50000-01	601.00	.2261	.1646	.2476	.9384	.7785-02	.1171-01	.9530	6.157	543.0
171	180.00	.60000-01	602.00	.2006	.1442	.2263	.9355	.6822-02	.1070-01	.8070	5.377	547.0
171	180.00	.70000-01	603.00	.1850	.1333	.2134	.9329	.6304-02	.1009-01	.7500	5.119	546.4
171	180.00	.80000-01	604.00	.1641	.1190	.1925	.9305	.5630-02	.9106-02	.6820	4.442	544.2
171	180.00	.10000+00	605.00	.1000+00	.7370-01	.1204	.9263	.3484-02	.5632-02	.4400	3.172	539.0
171	180.00	.15000	606.00	.5020-01	.3730-01	.6340-01	.9197	.1765-02	.2919-02	.2290	1.676	535.5
171	180.00	.20000	607.00	.2130-01	.1590-01	.2710-01	.9183	.7541-03	.1260-02	.1000+00	.6560	533.0
171	180.00	.21000	608.00	.1600-01	.1200-01	.2030-01	.9183	.5662-03	.9615-03	.7500-01	.5210	533.1
171	180.00	.22000	609.00	.1160-01	.8600-02	.1470-01	.9183	.4088-03	.6962-03	.5400-01	.4030	533.7
171	180.00	.30000	610.00	.5650-01	.4200-01	.7250-01	.9183	1985-02	.3428-02	.2560	1.765	536.2
171	180.00	.35000	611.00	.3910-01	.2900-01	.5020-01	.9183	.1373-02	.2373-02	.1770	1.185	536.4
171	180.00	.36000	612.00	.5020-01	.3710-01	.6460-01	.9183	.1755-02	.3055 02	.2240	1.514	537.6
171	180.00	.37000	613.00	.6440-01	.4720-01	.8360-01	.9183	.2235-02	.3953-02	.2790	1.885	540.3
171	180.00	.37500	614.00	.9210-01	.6710-01	.1206	.9183	.3173-02	.5705-02	.3890	2.618	542.8
171	180.00	.38000	615.00	.1247	.9010-01	.1650	.9183	.4259-02	.7806-02	.5090	3.426	545.7
171	180.00	.38500	616.00	.1350	.9680-01	.1799	.9183	.4580-02	.8508-02	.5390	3.622	547.6
171	180.00	.39000	617.00	.1567	.1117	.2104	.9183	.5284-02	.9951-02	.6120	4.098	549.5
171	180.00	.39500	618.00	.1713	.1217	.2311	.9183	.5755-02	.1093-01	.6610	4.445	550.6
171	180.00	.40000	619.00	.1744	.1236	.2361	.9183	.5844-02	.1116-01	.6670	4.457	551.3
171	180.00	.40500	620.00	.1673	.1183	.2269	.9183	.5594-02	.1073-01	.6350	4.258	551.8
171	180.00	.41000	621.00	.1707	.1206	.2317	.9183	.5704-02	.1096-01	.6470	4.334	552.0
171	180.00	.41500	622.00	.1824	.1283	.2489	.9183	.6069-02	.1177-01	.6810	4.549	553.1
171	180.00	.42500	624.00	.1978	.1371	.2750	.9183	.6483-02	.1301-01	.7030	4.685	557.0
171	180.00	.43000	625.00	.1819	.1262	.2527	.9183	.5969-02	.1195-01	.6480	4.335	556.8
171	180.00	.44000	626.00	.1443	.1017	.1964	.9183	.4811-02	.9287-02	.5430	3.637	552.6
171	180.00	.44500	627.00	.1152	.8250-01	.1539	.9183	.3901-02	.7280-02	.4570	3.096	548.2
171	180.00	.45000	628.00	.9230-01	.6750-01	.1219	.9183	.3193-02	.5767-02	.3890	2.641	543.6
171	180.00	.45500	629.00	.7040-01	.5170-01	.9140-01	.9183	.2444-02	.4325-02	.3050	2.111	540.4
171	180.00	.46000	630.00	.5790-01	.4990-01	.8790-01	.9183	.2361-02	.4157-02	.2970	2.004	539.5
171	180.00	.47000	631.00	.1077	.7600-01	.1418	.9183	.3690-02	.6708-02	.4460	2.999	544.5
171	180.00	.48000	632.00	.1838	.1308	.2473	.9183	.6187-02	.1169-01	.7140	4.821	549.9
171	180.00	.49000	633.00	.1494	.1063	.2011	.9183	.5028-02	.9512-02	.5800	3.950	550.0
171	180.00	.50000	634.00	.1252	.8950-01	.1674	.9183	.4235-02	.7919-02	.4950	3.458	548.5
171	180.00	.55000	635.00	.6770-01	.4950-01	.8830-01	.9183	.2343-02	.4174-02	.2900	1.933	541.5
171	180.00	.60000	636.00	.7250-01	.5340-01	.9360-01	.9183	.2528-02	.4427-02	.3200	2.074	538.7
171	180.00	.65000	637.00	.4800-01	.3560-01	.6150-01	.9183	.1686-02	.2910-02	.2180	1.416	536.2

IH41(AEDC VKIA-A4A) O T S (CONFIG 1) TANK DATA (RV7F30)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
171	180.00	.70000	638.00	.4550-01	.3350-01	.5880-01	.9183	.1582-02	.2793-02	.1990	1.369	539.4
171	180.00	.75000	639.00	.1870-01	.1370-01	.2420-01	.9183	.6499-03	.1143-02	.8200-01	.5300	539.4
171	180.00	.80000	640.00	.2630-01	.1930-01	.3420-01	.9183	.9144-03	.1616-02	.1140	.7200	540.2
171	180.00	.85000	641.00	.6030-01	.4380-01	.7920-01	.9183	.2074-02	.3744-02	.2530	1.600	543.5
171	180.00	.86000	642.00	.6160-01	.4470-01	.8120-01	.9183	.2113-02	.3840-02	.2560	1.640	544.4
171	180.00	.87000	643.00	.6970-01	.5040-01	.9210-01	.9183	.2381-02	.4354-02	.2860	1.844	545.4
171	180.00	.88000	644.00	.8480-01	.6110-01	.1125	.9183	.2891-02	.5320-02	.3440	2.240	546.3
171	180.00	.89000	645.00	.8400-01	.6050-01	.1115	.9183	.2860-02	.5275-02	.3400	2.235	546.6
171	180.00	.90000	646.00	.6580-01	.4740-01	.8670-01	.9183	.2239-02	.4102-02	.2680	1.803	545.6
171	180.00	.92600	648.00	.1875	.1323	.2547	.9183	.6259-02	.1205-01	.7080	5.151	552.2
171	180.00	.95000	649.00	.2620-01	.1920-01	.3420-01	.9183	.9088-03	.1615-02	.1130	.8180	541.1
171	191.25	.35000	650.00	.3890-01	.2890-01	.4990-01	.9183	.1367-02	.2361-02	.1760	1.192	536.3
171	191.25	.36000	651.00	.5090-01	.3770-01	.6540-01	.9183	.1783-02	.3092-02	.2290	1.551	537.0
171	191.25	.37000	652.00	.7710-01	.5680-01	.9990-01	.9183	.2685-02	.4724-02	.3380	2.281	539.4
171	191.25	.37500	653.00	.8740-01	.6400-01	.1138	.9183	.3027-02	.5384-02	.3760	2.542	541.2
171	191.25	.38000	654.00	.1179	.8550-01	.1551	.9183	.4043-02	.7338-02	.4900	3.305	544.3
171	191.25	.38500	655.00	.1380	.9940-01	.1830	.9183	.4700-02	.8656-02	.5590	3.769	546.4
171	191.25	.39000	656.00	.1697	.1210	.2280	.9183	.5722-02	.1078-01	.6630	4.462	549.5
171	191.25	.39500	657.00	.1869	.1327	.2522	.9183	.6277-02	.1193-01	.7200	4.847	550.6
171	191.25	.40000	658.00	.2027	.1433	.2750	.9183	.6776-02	.1301-01	.7690	5.187	551.9
171	191.25	.40500	659.00	.1943	.1370	.2643	.9183	.6479-02	.1250-01	.7310	4.931	552.5
171	191.25	.41000	660.00	.2092	.1473	.2851	.9183	.6966-02	.1348-01	.7830	5.264	552.9
171	191.25	.41500	661.00	.2033	.1437	.2757	.9183	.6798-02	.1304-01	.7720	5.177	551.8
171	191.25	.42000	662.00	.2285	.1592	.3157	.9183	.7528-02	.1493-01	.8250	5.538	555.7
171	191.25	.42500	663.00	.2433	.1679	.3400	.9183	.7941-02	.1608-01	.8530	5.734	558.0
171	191.25	.43000	664.00	.2511	.1700	.3602	.9183	.8038-02	.1703-01	.8270	5.602	562.4
171	191.25	.44000	665.00	.1758	.1240	.2392	.9183	.5866-02	.1131-01	.6620	4.479	552.5
171	191.25	.45000	666.00	.1100	.7990-01	.1444	.9183	.3778-02	.6831-02	.4600	3.122	543.7
171	191.25	.45500	667.00	.1027	.7460-01	.1347	.9183	.3531-02	.6373-02	.4300	2.923	543.5
171	191.25	.46000	668.00	.1120	.8100-01	.1478	.9183	.3833-02	.6909-02	.4610	3.142	545.0
171	191.25	.47000	669.00	.1330	.9520-01	.1777	.9183	.4503-02	.8405-02	.5270	3.596	548.2
171	191.25	.48000	670.00	.1556	.1115	.2077	.9183	.5273-02	.9824-02	.6190	4.220	548.0
171	191.25	.49000	671.00	.1563	.1116	.2096	.9183	.5279-02	.9912-02	.6140	4.173	549.0
171	191.25	.50000	672.00	.1590	.1132	.2139	.9183	.5352-02	.1011-01	.6180	4.289	549.9
171	191.25	.60000	673.00	.6190-01	.4580-01	.7950-01	.9183	.2168-02	.3761-02	.2780	1.793	537.0
171	191.25	.70000	674.00	.5720-01	.4180-01	.7450-01	.9183	.1977-02	.3525-02	.2450	1.669	541.6
171	191.25	.85000	676.00	.5280-01	.3850-01	.6900-01	.9183	.1819-02	.3265-02	.2230	1.415	542.6
171	191.25	.86000	677.00	.6390-01	.4640-01	.8390-01	.9183	.2195-02	.3968-02	.2670	1.709	543.7
171	191.25	.87000	678.00	.6870-01	.4970-01	.9050-01	.9183	.2352-02	.4283-02	.2840	1.831	544.8
171	191.25	.88000	679.00	.7490-01	.5410-01	.9900-01	.9183	.2557-02	.4684-02	.3060	1.999	545.6
171	191.25	.89000	680.00	.8580-01	.6180-01	.1136	.9183	.2923-02	.5381-02	.3480	2.304	546.3
171	191.25	.90000	681.00	.8000-01	.5760-01	.1062	.9183	.2726-02	.5024-02	.3240	2.184	546.5
171	191.25	.91000	682.00	.6150-01	.4460-01	.8110-01	.9183	.2107-02	.3838-02	.2540	1.854	544.8

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F30)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
171	191.25	.92600	683.00	.1194	.8540-01	.1596	.9183	.4039-02	.7548-02	.4720	3.454	548.4
171	191.25	.95000	684.00	.2690-01	.1980-01	.3470-01	.9183	.9375-03	.1641-02	.1190	.8620	538.6
171	197.00	.33000	685.00	.3350-01	.2500-01	.4280-01	.9183	.1181-02	.2024-02	.1540	1.042	534.9
171	197.00	.34000	686.00	.3680-01	.2740-01	.4700-01	.9183	.1296-02	.2225-02	.1690	1.141	535.1
171	197.00	.35000	687.00	.3990-01	.3490-01	.6010-01	.9183	.1650-02	.2842-02	.2140	1.446	535.7
171	197.00	.36000	688.00	.5760-01	.4270-01	.7400-01	.9183	.2020-02	.3502-02	.2590	1.752	536.9
171	197.00	.37000	689.00	.7290-01	.5390-01	.9390-01	.9183	.2551-02	.4441-02	.3260	2.199	537.6
171	197.00	.50000	691.00	.1747	.1205	.2444	.9183	.5698-02	.1156-01	.6110	4.083	558.1
171	197.00	.60000	692.00	.6480-01	.4790-01	.8360-01	.9183	.2266-02	.3953-02	.2830	1.669	538.0
171	197.00	.70000	693.00	.1171	.8500-01	.1537	.9183	.4022-02	.7271-02	.4890	3.325	543.7
171	197.00	.80000	694.00	.2550-01	.1880-01	.3310-01	.9183	.8877-03	.1567-02	.1110	.7020	540.0
193	197.00	.87000	695.00	.1308	.9320-01	.1746	.9190	.4415-02	.8272-02	.5100	3.249	549.3
193	197.00	.92600	696.00	.5490-01	.3590-01	.8200-01	.9190	.1700-02	.3184-02	.1630	1.179	569.1
193	209.80	.15000-01	697.00	.2120	.1548	.2759	.9187	.7333-02	.1307-01	.9030	6.218	541.7
172	209.80	.30000-01	698.00	.2284	.1636	.2388	.9445	.7749-02	.1131-01	.9080	6.174	547.9
172	209.80	.50000-01	699.00	.2973	.2129	.3229	.9400	.1008-01	.1529-01	1.180	7.495	548.0
172	209.80	.70000-01	700.00	.2905	.2011	.3373	.9344	.9524-02	.1498-01	1.029	6.920	557.0
172	209.80	.10000+00	701.00	.1805	.1303	.2183	.9276	.6171-02	.1034-01	.7370	4.703	545.5
172	209.80	.15000	702.00	.8010-01	.5870-01	.1022	.9203	.2781-02	.4839-02	.3470	2.488	540.4
172	209.80	.20000	703.00	.3750-01	.2810-01	.4770-01	.9183	.1330-02	.2258-02	.1760	1.180	532.8
172	209.80	.30000	704.00	.3490-01	.2568-01	.4500-01	.9183	.1223-02	.2129-02	.1560	1.112	537.4
172	209.80	.35000	705.00	.4230-01	.3130-01	.5440-01	.9183	.1484-02	.2578-02	.1900	1.307	537.0
172	209.80	.37500	706.00	.8100-01	.5930-01	.1054	.9183	.2807-02	.4992-02	.3490	2.401	540.9
172	209.80	.50000	707.00	.7950-01	.5740-01	.1051	.9183	.2720-02	.4977-02	.3260	2.233	545.2
172	209.80	.60000	708.00	.5320-01	.3940-01	.6830-01	.9183	.1867-02	.3236-02	.2400	1.536	536.6
172	209.80	.70000	709.00	.4160-01	.3070-01	.5370-01	.9183	.1454-02	.2542-02	.1850	1.182	538.3
172	209.80	.80000	710.00	.2410-01	.1790-01	.3090-01	.9183	.8458-03	.1465-02	.1090	.6810	536.5
172	209.80	.87000	711.00	.4880-01	.3600-01	.6300-01	.9183	.1704-02	.2984-02	.2160	1.370	538.4
172	209.80	.92600	712.00	.6120-01	.4440-01	.8040-01	.9183	.2104-02	.3810-02	.2550	1.858	543.7
172	217.70	.15000-01	713.00	.1183	.8700-01	.1532	.9183	.4119-02	.7256-02	.5180	3.578	539.4
172	217.70	.30000-01	714.00	.2347	.1678	.2432	.9456	.7947-02	.1152-01	.9270	6.304	548.3
172	217.70	.50000-01	715.00	.3216	.2300	.3463	.9411	.1089-01	.1640-01	1.272	8.295	548.2
172	217.70	.70000-01	716.00	.3186	.2126	.3731	.9353	.1007-01	.1767-01	1.007	6.809	565.1
172	217.70	.10000+00	717.00	.1928	.1379	.2331	.9283	.6529-02	.1104-01	.7620	4.939	548.3
172	217.70	.15000	718.00	.9030-01	.6620-01	.1147	.9207	.3134-02	.5434-02	.3910	2.867	540.4
172	217.70	.20000	719.00	.4770-01	.3570-01	.6060-01	.9183	.1691-02	.2872-02	.2230	1.517	532.9
172	217.70	.30000	720.00	.3840-01	.2840-01	.4940-01	.9183	.1344-02	.2340-02	.1720	1.233	537.4
172	217.70	.35000	721.00	.3410-01	.2540-01	.4360-01	.9183	.1202-02	.2066-02	.1560	1.089	535.1
172	217.70	.37500	722.00	.5110-01	.3770-01	.6600-01	.9183	.1784-02	.3127-02	.2260	1.572	538.5
172	217.70	.50000	723.00	.3610-01	.2670-01	.4640-01	.9183	.1264-02	.2198-02	.1610	1.121	537.2
172	217.70	.60000	724.00	.6910-01	.5130-01	.8850-01	.9183	.2431-02	.4189-02	.3150	2.024	535.6
172	217.70	.70000	725.00	.3790-01	.2820-01	.4860-01	.9183	.1335-02	.2300-02	.1730	1.105	535.6
172	217.70	.80000	726.00	.4110-01	.3050-01	.5260-01	.9183	.1446-02	.2492-02	.1870	1.184	535.6

(IH-1(AEDC V-1A-A-4A) C T S (CONFIG 1) TANK DATA (RV7F30)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
172	217.70	.87000	727.00	.8690-01	.6440-01	.1117	.9183	.3049-02	.5288-02	.3910	2.515	536.7
172	217.70	.92600	728.00	.5380-01	.3930-01	.7020-01	.9183	.1860-02	.3322-02	.2300	1.674	541.6

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = 10.00 BETA = .0000 GRIT = 4.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
121	5.500	4.977	9.970	.0000	.0000	177.7	.1910	741.0	105.1	4.044	2763.	.1524-03
139	5.500	4.948	9.990	.0000	.0000	177.7	.1910	744.0	105.5	4.045	2769.	.1519-03
140	5.500	4.945	9.970	.0000	.0000	177.7	.1910	744.0	105.6	4.043	2769.	.1518-03
141	5.500	4.977	9.980	.0000	.0000	177.9	.1910	742.0	105.2	4.049	2764.	.1525-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
121	.8463-07	.4474-01	.1363-01
139	.8497-07	.4477-01	.1366-01
140	.8498-07	.4476-01	.1367-01
141	.8469-07	.4477-01	.1363-01

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
140	.00000	.30000-02	730.00	.4732	.3590	.3964	.9805	.1607-01	.1774-01	2.476	16.64	590.0
140	.00000	.10300-01	731.00	.2060	.1668	.2422	.9181	.7468-02	.1084-01	1.462	10.06	548.4
140	.00000	.15000-01	732.00	.1728	.1409	.2019	.9181	.6307-02	.9035-02	1.272	8.675	542.4
140	.00000	.25000-01	734.00	.6018	.4469	.5121	.9753	.2000-01	.2292-01	2.892	19.16	599.8
140	.00000	.30000-01	735.00	.9509	.6513	.7810	.9737	.2915-01	.3496-01	3.442	22.65	626.1
140	.00000	.40000-01	737.00	.6076	.4567	.5299	.9722	.2044-01	.2372-01	3.061	19.51	594.4
140	.00000	.45000-01	738.00	.6202	.4685	.5477	.9704	.2097-01	.2452-01	3.189	20.65	592.0
140	.00000	.60000-01	739.00	.4960	.3677	.4479	.9652	.1646-01	.2007-01	2.366	15.49	600.3
140	.00000	.70000-01	740.00	.4391	.3293	.4076	.9618	.1474-01	.1822-01	2.194	14.48	595.3
140	.00000	.80000-01	741.00	.3748	.2831	.3552	.9585	.1267-01	.1595-01	1.927	13.70	592.1
140	.00000	.10000+00	742.00	.3644	.2810	.3603	.9520	.1258-01	.1611-01	2.044	13.42	581.6
140	.00000	.12500	743.00	.2845	.2165	.2949	.9444	.9690-02	.1320-01	1.507	10.73	588.6
140	.00000	.15000	744.00	.2215	.1723	.2386	.9374	.7714-02	.1068-01	1.294	8.864	576.4
140	.00000	.17500	745.00	.1486	.1176	.1651	.9310	.5262-02	.7391-02	.9380	6.980	565.9
140	.00000	.20000	746.00	.9790-01	.7800-01	.1119	.9254	.3493-02	.5009-02	.6410	4.552	560.7
140	.00000	.21500	747.00	.9340-01	.7480-01	.1083	.9224	.3348-02	.4848-02	.6250	4.311	557.4

(RV7F30)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
140	.00000	.23000	748.00	.7490-01	.6000-01	.8820-01	.9197	.2685-02	.3948-02	.5010	3.686	557.4
140	.00000	.24000	749.00	.6950-01	.5570-01	.8250-01	.9181	.2493-02	.3692-02	.4670	3.508	556.6
140	.00000	.25000	750.00	.3420-01	.2760-01	.4030-01	.9181	.1235-02	.1805-02	.2380	1.924	551.1
140	.00000	.30000	751.00	.7310-01	.5870-01	.8660-01	.9181	.2629-02	.3876-02	.4980	3.252	554.8
140	.00000	.35000	752.00	.7280-01	.5860-01	.8610-01	.9181	.2625-02	.3852-02	.5020	3.162	552.9
140	.00000	.40000	753.00	.6990-01	.5630-01	.8260-01	.9181	.2521-02	.3695-02	.4830	3.100	552.4
140	.00000	.50000	754.00	.7500-01	.6030-01	.8880-01	.9181	.2699-02	.3973-02	.5130	3.344	554.1
140	.00000	.60000	755.00	.6000-01	.4860-01	.7060-01	.9181	.2177-02	.3160-02	.4260	2.730	548.3
140	.00000	.70000	756.00	.5330-01	.4280-01	.6320-01	.9181	.1917-02	.2829-02	.3620	2.383	555.1
140	.00000	.80000	757.00	.4600-01	.3690-01	.5460-01	.9181	.1650-02	.2445-02	.3090	1.927	556.8
140	.00000	.90000	758.00	.7900-02	.6400-02	.9400-02	.9181	.2849-03	.4217-03	.5300-01	.3440	556.4
140	55.000	.22000	759.00	.6250-01	.5070-01	.7370-01	.9174	.2271-02	.3298-02	.4480	3.335	546.8
140	55.000	.25000	760.00	.2960-01	.2410-01	.3510-01	.9150	.1079-02	.1573-02	.2170	1.705	542.8
140	55.000	.27000	761.00	.4330-01	.3510-01	.5170-01	.9150	.1570-02	.2314-02	.3090	2.299	547.3
140	55.000	.30000	762.00	.5990-01	.4860-01	.7150-01	.9150	.2177-02	.3200-02	.4310	2.590	546.3
140	55.000	.32000	763.00	.7630-01	.6170-01	.9150-01	.9150	.2763-02	.4094-02	.5380	3.177	549.6
140	55.000	.34000	764.00	.9550-01	.7670-01	.1153	.9150	.3435-02	.5159-02	.6500	3.842	554.9
140	55.000	.36000	765.00	.9120-01	.7350-01	.1098	.9150	.3288-02	.4915-02	.6290	3.767	553.0
140	55.000	.38000	766.00	.8180-01	.6610-01	.9830-01	.9150	.2957-02	.4399-02	.5710	3.461	551.1
140	55.000	.40000	767.00	.1018	.8170-01	.1229	.9150	.3657-02	.5502-02	.6890	4.289	555.6
140	60.000	.23000	768.00	.5440-01	.4430-01	.6480-01	.9149	.1984-02	.2898-02	.3980	2.965	543.6
140	67.500	.25000	769.00	.2340-01	.1910-01	.2780-01	.9140	.8543-03	.1246-02	.1740	1.357	540.6
140	67.500	.27000	770.00	.3550-01	.2880-01	.4250-01	.9140	.1291-02	.1902-02	.2570	1.877	545.0
140	67.500	.29000	771.00	.3710-01	.3020-01	.4440-01	.9140	.1352-02	.1986-02	.2710	1.683	543.6
140	67.500	.30000	772.00	.7550-01	.6100-01	.9100-01	.9140	.2730-02	.4074-02	.5290	3.231	550.2
140	67.500	.31000	773.00	.9530-01	.7660-01	.1157	.9140	.3429-02	.5179-02	.6490	3.917	554.9
140	67.500	.32000	774.00	.1074	.8630-01	.1304	.9140	.3862-02	.5837-02	.7300	4.371	555.1
140	67.500	.32500	775.00	.1171	.9400-01	.1422	.9140	.4205-02	.6365-02	.7930	4.758	555.6
140	67.500	.33000	776.00	.1259	.1009	.1531	.9140	.4515-02	.6854-02	.8460	5.091	556.7
140	67.500	.33500	777.00	.1421	.1134	.1738	.9140	.5077-02	.7779-02	.9350	5.616	559.9
140	67.500	.34000	778.00	.1534	.1220	.1882	.9140	.5463-02	.8423-02	.9940	5.965	562.1
140	67.500	.34500	779.00	.1725	.1363	.2131	.9140	.6102-02	.9539-02	1.083	6.503	565.6
140	67.500	.35000	780.00	.1815	.1430	.2251	.9140	.6401-02	.1007-01	1.123	6.749	568.7
140	67.500	.35500	781.00	.1976	.1539	.2483	.9140	.6891-02	.1111-01	1.160	6.969	575.8
140	67.500	.36000	782.00	.1966	.1535	.2465	.9140	.6870 02	.1103-01	1.165	7.000	574.6
140	67.500	.36500	783.00	.1840	.1445	.2292	.9140	.6466-02	.1026-01	1.119	6.720	571.1
140	67.500	.37000	784.00	.1672	.1318	.2072	.9140	.5901-02	.9275-02	1.038	6.274	568.3
140	67.500	.37500	785.00	.1539	.1214	.1905	.9140	.5435-02	.8526-02	.9590	5.848	567.7
141	67.500	.38000	786.00	.1480	.1169	.1831	.9140	.5231-02	.8194-02	.9250	5.658	567.3
141	67.500	.39000	787.00	.1281	.1012	.1584	.9140	.4529-02	.7089-02	.8020	4.920	567.0
141	67.500	.40000	788.00	.1025	.8130-01	.1261	.9140	.3638-02	.5645-02	.6550	4.055	564.2
141	67.500	.50000	789.00	.7330-01	.5870-01	.8920-01	.9140	.2626-02	.3993-02	.4910	3.131	557.2
141	67.500	.60000	790.00	.7900-01	.6350-01	.9570-01	.9140	.2844-02	.4282-02	.5420	3.544	553.6

(IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F30)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
141	67.500	.70000	791.00	.7240-01	.5830-01	.8760-01	.9140	.2609-02	.3922-02	.4980	3.510	553.1
141	67.500	.80000	792.00	.6910-01	.5580-01	.8330-01	.9140	.2499-02	.3729-02	.4840	3.039	550.2
141	67.500	.90000	793.00	.3110-01	.2500-01	.3780-01	.9140	.1117-02	.1691-02	.2110	1.352	555.6
141	78.000	.27000	794.00	.2630-01	.2140-01	.3150-01	.9134	.9583-03	.1408-02	.1930	1.381	542.4
141	78.000	.29000	795.00	.7090-01	.5720-01	.8580-01	.9134	.2562-02	.3842-02	.4960	3.051	550.6
141	78.000	.30000	796.00	.1563	.1238	.1935	.9134	.5542-02	.8665-02	.9880	5.941	563.3
141	78.000	.31000	797.00	.1965	.1521	.2498	.9134	.6811-02	.1118-01	1.119	6.683	577.3
141	78.000	.32000	798.00	.2148	.1621	.2819	.9134	.7259-02	.1262-01	1.098	6.477	590.4
141	78.000	.32500	799.00	.2300	.1720	.3055	.9134	.7702-02	.1368-01	1.133	6.686	594.6
141	78.000	.33000	800.00	.2447	.1818	.3276	.9134	.8141-02	.1467-01	1.175	6.930	597.2
141	78.000	.33500	801.00	.2941	.2170	.3977	.9134	9717-02	.1780-01	1.374	8.091	600.2
141	78.000	.34000	802.00	.3377	.2504	.4538	.9134	.1121-01	.2032-01	1.607	9.468	598.3
141	78.000	.34500	803.00	.3139	.2355	.4153	.9134	.1054-01	.1859-01	1.565	9.268	593.2
141	78.000	.35000	804.00	.3045	.2321	.3946	.9134	.1039-01	.1767-01	1.621	9.640	585.6
141	78.000	.35500	805.00	.2554	.1976	.3250	.9134	.8847-02	.1455-01	1.450	8.655	577.7
141	78.000	.36000	806.00	.2165	.1676	.2752	9134	.7505-02	.1232-01	1.234	7.387	577.2
141	78.000	.36500	807.00	.1848	.1433	.2346	.9134	.6415-02	.1050-01	1.059	6.359	576.6
141	78.000	.37500	809.00	.1512	.1184	.1898	.9134	.5301-02	.8696-02	.9060	5.470	570.8
141	78.000	.38000	810.00	.1306	.1027	.1630	.9134	.4600-02	.7297-02	.8000	4.863	567.8
141	78.000	.39000	811.00	.1036	.8200-01	.1283	.9134	.3671-02	.5743-02	.6540	3.995	563.5
141	78.000	.40000	812.00	.9220-01	.7340-01	.1135	.9134	.3284-02	.5087-02	.5950	3.644	560.4
121	90.000	.40000-01	985.00	.3846	.2978	.3748	.9545	.1332-01	.1677-01	2.187	14.02	576.9
121	90.000	.50000-01	986.00	.3987	.3088	.3962	.9511	.1381-01	.1773-01	2.269	14.46	576.8
121	90.000	.60000-01	987.00	.3451	.2619	.3502	.9477	.1172-01	.1557-01	1.800	11.61	587.5
121	90.000	.70000-01	988.00	.3228	.2468	.3341	.9445	.1104-01	.1495-01	1.737	11.46	583.6
121	90.000	.80000-01	989.00	.2703	.2082	.2848	.9415	.9316-02	.1274-01	1.504	10.48	579.7
121	90.000	.10000+00	990.00	.2228	.1750	.2417	.9357	.7828-02	.1081-01	1.351	8.722	568.4
121	90.000	.15000	991.00	.1179	.9340-01	.1367	.9237	.4180-02	.6114-02	.7470	5.439	562.4
141	90.000	.20000	813.00	.3220-01	.2630-01	.3860-01	.9133	.1177-02	.1730-02	.2370	1.727	540.4
141	90.000	.24000	814.00	.2340-01	.1910-01	.2810-01	.9130	.8550-03	.1258-02	.1720	1.397	540.3
141	90.000	.27000	816.00	.1490-01	.1220-01	.1790-01	.9130	.5460-03	.8027-03	.1100	.7860	539.9
141	90.000	.29000	817.00	.1460	.1135	.1853	.9130	.5080-02	.8295-02	.8460	5.180	575.2
141	90.000	.30000	818.00	.2640	.1946	.3587	.9130	.8711-02	.1606-01	1.228	7.309	500.6
141	90.000	.31000	819.00	.2874	.2140	.3851	.9130	.9582-02	.1724-01	1.392	8.230	596.4
141	90.000	.32000	820.00	.2789	.2087	.3714	.9130	.9343-02	.1663-01	1.376	8.123	594.4
141	90.000	.32500	821.00	.2906	.2182	.3853	.9130	.9767-02	.1725-01	1.453	8.560	592.9
141	90.000	.33000	822.00	.3384	.2528	.4517	.9130	.1132-01	.2022-01	1.658	9.785	595.1
141	90.000	.33500	823.00	.4045	.2959	.5553	.9130	.1325-01	.2486-01	1.830	10.79	603.5
141	90.000	.34000	824.00	.4204	.3102	.5703	.9130	.1389-01	.2553-01	1.964	11.53	600.2
141	90.000	.34500	825.00	.4573	.3334	.6305	.9130	.1493-01	.2823-01	2.044	12.01	604.7
141	90.000	.35000	826.00	.5248	.3559	.8089	.9130	.1594-01	.3621-01	1.836	10.67	626.4
141	90.000	.36000	828.00	.4259	.3072	.5965	.9130	.1375-01	.2670-01	1.830	10.70	608.6
141	90.000	.36500	829.00	.2744	.2112	.3525	.9130	.9455-02	.1578-01	1.522	9.045	580.7

ORIGINAL PAGE IS
OF POOR QUALITY

(RV7F30)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
141	90.000	.37000	830.00	.1519	.1205	.1882	.9130	.5396-02	.8426-02	.9680	5.925	562.2
141	90.000	.37500	831.00	.1078	.8650-01	.1318	.9130	.3873-02	.5901-02	.7270	4.414	553.9
141	90.000	.38000	832.00	.8040-01	.6500-01	.9760-01	.9130	.2939-02	.4370-02	.5610	3.418	548.7
141	90.000	.39000	833.00	.5830-01	.4730-01	.7040-01	.9130	.2116-02	.3154-02	.4150	2.560	545.4
141	90.000	.40000	834.00	.5570-01	.4510-01	.6750-01	.9130	.2020-02	.3022-02	.3930	2.429	547.0
141	90.000	.50000	835.00	.5560-01	.4490-01	.6740-01	.9130	.2011-02	.3017-02	.3890	2.457	548.1
141	90.000	.60000	836.00	.5270-01	.4270-01	.6360-01	.9130	.1914-02	.2846-02	.3770	2.512	544.8
141	90.000	.70000	837.00	.4660-01	.3780-01	.5630-01	.9130	.1691-02	.2519-02	.3320	2.339	545.3
141	90.000	.80000	838.00	.3660-01	.2960-01	.4450-01	.9130	.1325-02	.1991-02	.2560	1.586	548.8
141	90.000	.90000	839.00	.3480-01	.2780-01	.4270-01	.9130	.1247-02	.1910-02	.2310	1.473	556.0
141	112.50	.23000	840.00	.2310-01	.1890-01	.2770-01	.9130	.8479-03	.1238-02	.1740	1.406	537.0
141	112.50	.25000	841.00	.7900-02	.6400-02	.9400-02	.9130	.2882-03	.4197-03	.5900-01	.4630	535.6
141	112.50	.30000	843.00	.4960-01	.4030-01	.5980-01	.9130	.1806-02	.2675-02	.3590	2.137	543.1
141	112.50	.33000	844.00	.1057	.8500-01	.1293	.9130	.3805-02	.5776-02	.7190	4.325	552.6
141	112.50	.35000	845.00	.1065	.8590-01	.1294	.9130	.3845-02	.5794-02	.7370	4.512	549.8
141	112.50	.37000	846.00	.5670-01	.4620-01	.6820-01	.9130	.2067-02	.3056-02	.4120	2.546	542.2
141	112.50	.40000	847.00	.1890-01	.1550-01	.2260-01	.9130	.6945-03	.1012-02	.1430	.8940	536.1
141	112.50	.45000	848.00	.2520-01	.2060-01	.3020-01	.9130	.9229-03	.1351-02	.1880	1.187	537.9
141	112.50	.50000	849.00	.2380-01	.1950-01	.2850-01	.9130	.8715-03	.1274-02	.1780	1.149	537.5
141	112.50	.55000	850.00	.2900-01	.2370-01	.3470-01	.9130	.1062-02	.1555-02	.2160	1.449	538.2
141	112.50	.60000	851.00	.3910-01	.3190-01	.4690-01	.9130	.1430-02	.2099-02	.2900	1.949	539.0
141	112.50	.65000	852.00	.2980-01	.2440-01	.3570-01	.9130	.1092-02	.1599-02	.2220	1.518	538.2
141	112.50	.70000	853.00	.2900-01	.2360-01	.3480-01	.9130	.1058-02	.1559-02	.2130	1.497	540.7
141	112.50	.90000	856.00	.3170-01	.2570-01	.3830-01	.9130	.1150-02	.1717-02	.2250	1.457	546.3
141	125.40	.84000	857.00	.3830-01	.3100-01	.4630-01	.9130	.1389-02	.2071-02	.2720	1.682	545.8
141	125.40	.85000	858.00	.4790-01	.3880-01	.5780-01	.9130	.1738-02	.2589-02	.3410	2.120	545.4
141	125.40	.86000	859.00	.5110-01	.4140-01	.6170-01	.9130	.1854-02	.2762-02	.3640	2.283	545.3
141	125.40	.87000	860.00	.5530-01	.4490-01	.6690-01	.9130	.2009-02	.2994-02	.3940	2.479	545.4
141	125.40	.88000	861.00	.6310-01	.5110-01	.7630-01	.9130	.2290-02	.3414-02	.4490	2.822	545.7
141	125.40	.89000	862.00	.6600-01	.5340-01	.8000-01	.9130	.2398-02	.3581-02	.4640	2.929	547.6
141	125.40	.90000	863.00	.6400-01	.5180-01	.7750-01	.9130	.2320-02	.3469-02	.4520	2.875	546.7
141	125.40	.91000	864.00	.4620-01	.3740-01	.5580-01	.9130	.1674-02	.2499-02	.3270	2.382	546.1
141	125.40	.92600	865.00	.7360-01	.5890-01	.9030-01	.9130	.2636-02	.4044-02	.4880	3.522	556.3
141	129.30	.80000	866.00	.2920-01	.2370-01	.3520-01	.9130	.1063-02	.1574-02	.2110	1.329	543.0
141	129.30	.81000	867.00	.2230-01	.1810-01	.2690-01	.9130	.8093-03	.1203-02	.1590	.9980	544.5
141	129.30	.82000	868.00	.2110-01	.1720-01	.2550-01	.9130	.7678-03	.1144-02	.1510	.9430	545.2
141	129.30	.83000	869.00	.2690-01	.2180-01	.3260-01	.9130	.9760-03	.1460-02	.1900	1.191	547.0
141	135.00	.40000-01	870.00	.2586	.2056	.2674	.9436	.9207-02	.1197-01	1.666	10.64	560.6
141	135.00	.50000-01	871.00	.2954	.2347	.3110	.9403	.1051-01	.1392-01	1.895	12.03	561.3
141	135.00	.60000-01	872.00	.2510	.1967	.2700	.9372	.8808-02	.1209-01	1.512	9.924	570.0
141	135.00	.70000-01	873.00	.2112	.1666	.2307	.9342	.7461-02	.1033-01	1.311	8.832	565.9
141	135.00	.10000+00	875.00	.1481	.1190	.1675	.9264	.5327-02	.7500-02	1.004	6.567	553.2
141	135.00	.15000	876.00	.6920-01	.5610-01	.8180-01	.9170	.2510-02	.3662-02	.4910	3.597	545.9

DATE 03 JUN 78

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F30)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
141	135.00	.20000	877.00	.2830-01	.2310-01	.3380-01	.9130	.1036-02	.1512-02	.2120	1.440	536.6
141	135.00	.35000	878.00	.4010-01	.3270-01	.4800-01	.9130	.1466-02	.2151-02	.2970	1.852	539.1
141	135.00	.40000	879.00	.4070-01	.3320-01	.4890-01	.9130	.1487-02	.2188-02	.3000	1.906	540.1
141	135.00	.50000	880.00	.2520-01	.2060-01	.3020-01	.9130	.9240-03	.1353-02	.1880	1.297	538.1
141	135.00	.55000	881.00	.1550-01	.1270-01	.1860-01	.3130	.5690-03	.8311-03	.1160	.7790	537.1
141	135.00	.60000	882.00	.1910-01	.1560-01	.2290-01	.9130	.6995-03	.1025-02	.1420	.9560	538.5
141	135.00	.65000	883.00	.2960-01	.2410-01	.3550-01	.9130	.1080-02	.1592-02	.2170	1.484	540.9
141	135.00	.70000	884.00	.3620-01	.2940-01	.4360-01	.9130	.1317-02	.1950-02	.2620	1.864	542.9
141	135.00	.75000	885.00	.3440-01	.2800-01	.4140-01	.9130	.1255-02	.1855-02	.2500	1.580	542.3
141	135.00	.84000	887.00	.3340-01	.2680-01	.4070-01	.9130	.1201-02	.1822-02	.2270	1.423	552.5
121	135.00	.85000	888.00	.4210-01	.3360-01	.5190-01	.9130	.1504-02	.2320-02	.2760	1.737	557.8
121	135.00	.86000	889.00	.5130-01	.4120-01	.6270-01	.9130	.1843-02	.2834-02	.3470	2.184	553.0
121	135.00	.87000	890.00	.5800-01	.4670-01	.7070-01	.9130	.2089-02	.3161-02	.3970	2.520	550.9
121	135.00	.88000	891.00	.5760-01	.4630-01	.7020-01	.9130	.2071-02	.3141-02	.3920	2.498	551.9
121	135.00	.89000	892.00	.5930-01	.4760-01	.7250-01	.9130	.2130-02	.3243-02	.4000	2.595	553.2
121	135.00	.90000	893.00	.5570-01	.4470-01	.6820-01	.9130	.2000-02	.3051-02	.3740	2.455	553.9
121	135.00	.91000	894.00	.2410-01	.1940-01	.2950-01	.9130	.8672-03	.1319-02	.1630	1.187	552.9
121	135.00	.92600	895.00	.5790-01	.4590-01	.7170-01	.9130	.2056-02	.3206-02	.3690	2.666	561.4
121	135.00	.95000	896.00	.4150-01	.3350-01	.5040-01	.9130	.1499-02	.2255-02	.2880	2.080	548.8
121	135.00	.42000	897.00	.7110-01	.5740-01	.8630-01	.9130	.2570-02	.3862-02	.4950	3.183	548.3
121	142.30	.43500	898.00	.6400-01	.5190-01	.7730-01	.9130	.2321-02	.3460-02	.4540	2.841	545.3
121	142.30	.45000	899.00	.5820-01	.4720-01	.7040-01	.9130	.2112-02	.3148-02	.4140	2.710	545.1
121	142.30	.50000	900.00	.3000-01	.2430-01	.3610-01	.9130	.1088-02	.1617-02	.2150	1.431	544.0
121	142.30	.60000	901.00	.2150-01	.1750-01	.2580-01	.9130	.7831-03	.1154-02	.1570	1.046	540.6
121	142.30	.70000	902.00	.2920-01	.2370-01	.3530-01	.9130	.1058-02	.1580-02	.2070	1.412	545.8
121	142.30	.80000	903.00	.3360-01	.2710-01	.4090-01	.9130	.1214-02	.1828-02	.2330	1.481	549.0
121	142.30	.87000	904.00	.6400-01	.5110-01	.7870-01	.9130	.2287-02	.3520-02	.4210	2.647	557.0
121	154.98	.42000	905.00	.8250-01	.6650-01	.1004	.9130	.2976-02	.4491-02	.5690	3.664	549.9
121	154.98	.43500	906.00	.7720-01	.6230-01	.9380-01	.9130	.2788-02	.4197-02	.5360	3.470	549.0
121	154.98	.45000	907.00	.7400-01	.5970-01	.9000-01	.9130	.2672-02	.4028-02	.5120	3.334	549.6
121	154.98	.50000	908.00	.2690-01	.2180-01	.3250-01	.9130	.9733-03	.1454-02	.1900	1.359	546.0
121	154.98	.93500	913.00	.1596	.1258	.1991	.9130	.5628-02	.8907-02	.9850	7.099	565.9
121	154.98	.94500	914.00	.7820-01	.6230-01	.9640-01	.9130	.2787-02	.4312-02	.5080	3.637	558.7
121	157.50	.80000-01	919.00	.1505	.1200	.1688	.9287	.5370-02	.7552-02	.9810	6.659	558.3
121	157.50	.20000	922.00	.1970-01	.1610-01	.2360-01	.9130	.7182-03	.1058-02	.1440	.9640	540.2
121	157.50	.42000	923.00	.7070-01	.5700-01	.8580-01	.9130	.2552-02	.3840-02	.4910	3.197	548.9
121	157.50	.43500	924.00	.6950-01	.5610-01	.8450-01	.9130	.2512-02	.3778-02	.4830	3.157	548.8
121	157.50	.45000	925.00	.7130-01	.5740-01	.8680-01	.9130	.2570-02	.3883-02	.4900	3.230	550.4
121	157.50	.85000	926.00	.5910-01	.4750-01	.7210-01	.9130	.2123-02	.3227-02	.4000	2.581	552.6
121	157.50	.86000	927.00	.6650-01	.5340-01	.8130-01	.9130	.2388-02	.3638-02	.4480	2.894	553.6
121	157.50	.87000	928.00	.5890-01	.4720-01	.7210-01	.9130	.2112-02	.3224-02	.3950	2 560	554.1
121	157.50	.88000	929.00	.6160-01	.4930-01	.7550-01	.9130	.2205-02	.3378-02	.4100	2.668	555.3
121	157.50	.89000	930.00	.6220-01	.4970-01	.7650-01	.9130	.2223-02	.3422-02	.4090	2.679	557.1

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F30)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
121	157.50	.90000	931.00	.6090-01	.4860-01	.7490-01	.9130	.2175-02	.3349-02	.4000	2.683	557.2
121	157.50	.91000	932.00	.6170-01	.4920-01	.7600-01	.9130	.2202-02	.3401-02	.4030	2.929	558.3
121	157.50	.92600	933.00	.1556	.1228	.1939	.9130	.5495-02	.8674-02	.9670	6.985	565.2
121	163.12	.41500	934.00	.1029	.8260-01	.1259	.9130	.3696-02	.5631-02	.6930	4.481	553.5
121	163.12	.42000	935.00	.1146	.9160-01	.1408	.9130	.4099-02	.6299-02	.7570	4.927	556.5
121	163.12	.43000	937.00	.1284	.1016	.1596	.9130	.4547-02	.7139-02	.8070	5.253	563.5
121	163.12	.44000	938.00	.1105	.8840-01	.1357	.9130	.3954-02	.6071-02	.7310	4.760	556.2
121	163.12	.44500	939.00	.8380-01	.6710-01	.1027	.9130	.3001-02	.4593-02	.5580	3.691	555.1
121	163.12	.45000	940.00	.7450-01	.5980-01	.9100-01	.9130	.2677-02	.4071-02	.5040	3.339	552.7
121	163.12	.50000	941.00	.9600-01	.7680-01	.1179	.9130	.3436-02	.5273-02	.6360	4.293	556.0
121	163.12	.60000	942.00	.4420-01	.3580-01	.5330-01	.9130	.1604-02	.2385-02	.3160	2.038	544.3
121	163.12	.70000	943.00	.3620-01	.2940-01	.4370-01	.9130	.1314-02	.1953-02	.2590	1.779	544.2
121	163.12	.80000	944.00	.2730-01	.2200-01	.3320-01	.9130	.9849-03	.1484-02	.1890	1.231	549.3
121	168.00	.35000	945.00	.3590-01	.2910-01	.4330-01	.9130	.1302-02	.1939-02	.2550	1.619	545.0
121	168.00	.36000	946.00	.4490-01	.3640-01	.5430-01	.9130	.1628-02	.2427-02	.3190	2.026	545.4
121	168.00	.37000	947.00	.5800-01	.4690-01	.7040-01	.9130	.2096-02	.3150-02	.4040	2.574	548.3
121	168.00	.37500	948.00	.7440-01	.5990-01	.9050-01	.9130	.2680-02	.4049-02	.5110	3.253	550.3
121	168.00	.38500	950.00	.7940-01	.6400-01	.9660-01	.9130	.2863-02	.4323-02	.5470	3.521	550.1
121	168.00	.39000	951.00	.9950-01	.7980-01	.1217	.9130	.3570-02	.5446-02	.6680	4.320	553.9
121	168.00	.39500	952.00	.1092	.8740-01	.1339	.9130	.3909-02	.5992-02	.7250	4.613	555.6
121	168.00	.40000	953.00	.1125	.8980-01	.1382	.9130	.4018-02	.6185-02	.7400	4.787	557.0
121	168.00	.40500	954.00	.1174	.9360-01	.1445	.9130	.4189-02	.6465-02	.7670	4.975	558.0
121	168.00	.41000	955.00	.1218	.9700-01	.1503	.9130	.4338-02	.6724-02	.7880	5.110	559.4
121	168.00	.41500	956.00	.1102	.8760-01	.1362	.9130	.3918-02	.6096-02	.7070	4.595	560.6
121	168.00	.42000	957.00	.1340	.1063	.1659	.9130	.4757-02	.7420-02	.8550	5.567	561.5
121	168.00	.42500	958.00	.1201	.9560-01	.1483	.9130	.4279-02	.6633-02	.7770	5.069	559.4
121	168.00	.43000	959.00	.1617	.1262	.2042	.9130	.5647-02	.9135-02	.9530	6.159	572.3
121	168.00	.44000	960.00	.1306	.1035	.1619	.9130	.4632-02	.7242-02	.8290	5.395	562.2
121	168.00	.44500	961.00	.1039	.8320-01	.1272	.9130	.3724-02	.5689-02	.6950	4.544	554.4
121	168.00	.45000	962.00	.7850-01	.6310-01	.9580-01	.9130	.2821-02	.4287-02	.5320	3.503	552.5
121	168.00	.45500	963.00	.6630-01	.5330-01	.8080-01	.9130	.2386-02	.3615-02	.4520	2.979	551.5
121	168.00	.46000	964.00	.6200-01	.4980-01	.7560-01	.9130	.2228-02	.3384-02	.4200	2.783	552.4
121	168.00	.47000	965.00	.6850-01	.5460-01	.8430-01	.9130	.2442-02	.3771-02	.4470	2.960	558.1
121	168.00	.48000	966.00	.1239	.9830-01	.1535	.9130	.4396-02	.6866-02	.7880	5.254	561.9
121	168.00	.49000	967.00	.1205	.9650-01	.1478	.9130	.4317-02	.6612-02	.8020	5.366	555.3
121	168.00	.85000	968.00	.5790-01	.4650-01	.7060-01	.9130	.2083-02	.3160-02	.3940	2.548	552.0
121	168.00	.86000	969.00	.6680-01	.5360-01	.8180-01	.9130	.2399-02	.3638-02	.4490	2.913	553.8
121	168.00	.87000	970.00	.5880-01	.4720-01	.7210-01	.9130	.2110-02	.3224-02	.3940	2.557	554.5
121	168.00	.88000	971.00	.6160-01	.4930-01	.7560-01	.9130	.2205-02	.3380-02	.4030	2.664	555.6
121	168.00	.89000	972.00	.7250-01	.5790-01	.8910-01	.9130	.2589-02	.3986-02	.4770	3.148	557.1
121	168.00	.90000	973.00	.8150-01	.6510-01	.1002	.9130	.2913-02	.4484-02	.5360	3.630	557.0
121	168.00	.91000	974.00	.8990-01	.7180-01	.1105	.9130	.3211-02	.4944-02	.5910	4.288	557.1
121	168.00	.92600	975.00	.1861	.1467	.2322	.9130	.6565-02	.1039-01	1.150	8.254	565.9

(RV7F30)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
121	168.00	.95000	976.00	.4220-01	.3410-01	.5100-01	.9130	.1527-02	.2283-02	.2970	2.141	546.4
121	180.00	.20000-01	982.00	.8660-01	.7010-01	.8900-01	.9444	.3137-02	.3980-02	.6100	4.245	546.5
121	180.00	.25000-01	983.00	.1163	.9360-01	.1207	.9425	.4189-02	.5399-02	.7960	5.492	550.9
121	180.00	.30000-01	984.00	.1841	.1467	.1931	.9409	.6562-02	.8640-02	1.195	8.155	559.0
139	180.00	.40000-01	600.00	.2099	.1684	.2214	.9395	.7538-02	.9912-02	1.417	9.069	556.0
139	180.00	.50000-01	601.00	.2198	.1765	.2356	.9363	.7904-02	.1055-01	1.494	9.596	555.0
139	180.00	.60000-01	602.00	.1959	.1562	.2142	.9333	.6991-02	.9588-02	1.282	8.477	560.7
139	180.00	.70000-01	603.00	.1758	.1402	.1952	.9304	.6278-02	.8739-02	1.154	7.824	560.2
139	180.00	.80000-01	604.00	.1523	.1223	.1710	.9278	.5473-02	.7654-02	1.032	6.682	555.5
139	180.00	.10000+00	605.00	.9700-01	.7870-01	.1109	.9231	.3521-02	.4965-02	.6920	4.967	547.4
139	180.00	.20000	607.00	.1760-01	.1440-01	.2100-01	.9130	.6461-03	.9390-03	.1340	.8790	536.5
139	180.00	.21000	608.00	.1290 01	.1060-01	.1540-01	.9130	.4752-03	.6907-03	.9900-01	.6850	536.5
139	180.00	.22000	609.00	.1030-01	.8400-02	.1230-01	.9130	.3777-03	.5494-03	.7800-01	.5850	536.9
139	180.00	.30000	610.00	.2450-01	.2000-01	.2940-01	.9130	.8953-03	.1315-02	.1820	1.246	541.3
139	180.00	.35000	611.00	.3390-01	.2750-01	.4080-01	.9130	.1233-02	.1826-02	.2460	1.639	544.7
139	180.00	.36000	612.00	.4680-01	.3800-01	.5650-01	.9130	.1701-02	.2531-02	.3360	2.258	546.6
139	180.00	.37000	613.00	.6320-01	.5100-01	.7680-01	.9130	.2285-02	.3436-02	.4410	2.961	550.8
139	180.00	.37500	614.00	.8160-01	.6560-01	.9950-01	.9130	.2936-02	.4453-02	.5580	3.737	554.0
139	180.00	.38000	615.00	.9520-01	.7640-01	.1165	.9130	.3419-02	.5215-02	.6430	4.299	556.1
139	180.00	.38500	616.00	.1054	.8430-01	.1293	.9130	.3775-02	.5790-02	.7020	4.694	558.0
139	180.00	.39000	617.00	.1194	.9530-01	.1468	.9130	.4268-02	.6573-02	.7880	5.247	559.4
139	180.00	.39500	618.00	.1297	.1034	.1599	.9130	.4628-02	.7156-02	.8480	5.678	560.8
139	180.00	.40000	619.00	.1341	.1068	.1653	.9130	.4782-02	.7398-02	.8760	5.825	560.9
139	180.00	.40500	620.00	.1261	.1005	.1555	.9130	.4497-02	.6963-02	.8220	5.484	561.3
139	180.00	.41000	621.00	.1224	.9750-01	.1509	.9130	.4366-02	.6756-02	.7990	5.331	561.0
139	180.00	.41500	622.00	.1323	.1051	.1636	.9130	.4704-02	.7325-02	.8510	5.656	563.1
139	180.00	.42500	624.00	.1533	.1214	.1904	.9130	.5436-02	.8522-02	.9720	6.454	565.2.
139	180.00	.43000	625.00	.1469	.1166	.1818	.9130	.5222-02	.8138-02	.9430	6.288	563.4
139	180.00	.44000	626.00	.1077	.8590-01	.1326	.9130	.3847-02	.5936-02	.7070	4.723	560.1
139	180.00	.44500	627.00	.9070-01	.7270-01	.1111	.9130	.3256-02	.4974-02	.6100	4.116	556.7
139	180.00	.45000	628.00	.7740-01	.6240-01	.9420-01	.9130	.2794-02	.4217-02	.5360	3.627	552.1
139	180.00	.45500	629.00	.6500-01	.5260-01	.7860-01	.9130	.2356-02	.3521-02	.4610	3.170	548.5
139	180.00	.46000	630.00	.6020-01	.4880-01	.7270-01	.9130	.2183-02	.3255-02	.4290	2.885	547.4
139	180.00	.47000	631.00	.7880-01	.6330-01	.9630-01	.9130	.2834-02	.4313-02	.5350	3.579	555.3
139	180.00	.48000	632.00	.1570	.1249	.1939	.9130	.5591-02	.8881-02	1.017	6.822	562.2
139	180.00	.49000	633.00	.1467	.1169	.1809	.9130	.5231-02	.8097-02	.9570	6.482	561.1
139	180.00	.50000	634.00	.1226	.9810-01	.1504	.9130	.4389-02	.6732-02	.8170	5.681	558.0
139	180.00	.55000	635.00	.6840-01	.5530-01	.8290-01	.9130	.2474-02	.3710-02	.4810	3.188	549.7
139	180.00	.60000	636.00	.7020-01	.5700-01	.8480-01	.9130	.2554-02	.3794-02	.5050	3.261	546.1
139	180.00	.65000	637.00	.4120-01	.3360-01	.4940-01	.9130	.1506-02	.2213-02	.3050	1.977	541.6
139	180.00	.70000	638.00	.4560-01	.3720-01	.5480-01	.9130	.1666-02	.2455-02	.3350	2.299	542.8
139	180.00	.75000	639.00	.2160-01	.1760-01	.2590-01	.9130	.7869-03	.1159-02	.1590	1.024	542.6
139	180.00	.80000	640.00	.2150-01	.1750-01	.2600-01	.9130	.7834-03	.1162-02	.1560	.9760	545.3

DATE 03 JUN 76

AEDC V41A-A4A (1H-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F30)

1H41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
139	180.00	.85000	641.00	.3370-01	.2720-01	.4080-01	.9130	.1219-02	.1828-02	.2370	1.496	549.6
139	180.00	.86000	642.00	.5570-01	.4490-01	.6760-01	.9130	.2012-02	.3025-02	.3890	2.490	550.6
139	180.00	.87000	643.00	.7730-01	.6230-01	.9400-01	.9130	.2790-02	.4207-02	.5360	3.451	551.8
139	180.00	.88000	644.00	.8690-01	.7000-01	.1057	.9130	.3133-02	.4733-02	.6000	3.890	552.6
139	180.00	.89000	645.00	.7920-01	.6370-01	.9650-01	.9130	.2854-02	.4322-02	.5440	3.566	553.5
139	180.00	.90000	646.00	.6690-01	.5390-01	.8130-01	.9130	.2415-02	.3641-02	.4640	3.111	551.9
139	180.00	.92600	648.00	.1837	.1464	.2263	.9130	.6555-02	.1013-01	1.203	8.711	560.6
139	180.00	.95000	649.00	.2190-01	.1780-01	.2630-01	.9130	.7983-03	.1176-02	.1610	1.166	542.3
139	191.25	.35000	650.00	.4560-01	.3710-01	.5480-01	.9130	.1663-02	.2454-02	.3340	2.246	543.4
139	191.25	.36000	651.00	.5530-01	.4490-01	.6670-01	.9130	.2011-02	.2985-02	.3990	2.690	545.7
139	191.25	.37000	652.00	.8040-01	.6490-01	.9760-01	.9130	.2906-02	.4369-02	.5620	3.768	550.7
139	191.25	.37500	653.00	.9380-01	.7550-01	.1142	.9130	.3379-02	.5112-02	.6450	4.337	553.1
139	191.25	.38000	654.00	.1109	.8890-01	.1356	.9130	.3980-02	.6072-02	.7480	5.017	556.2
139	191.25	.38500	655.00	.1253	.1002	.1538	.9130	.4485-02	.6886-02	.8330	5.581	558.4
139	191.25	.39000	656.00	.1420	.1131	.1751	.9130	.5063-02	.7840-02	.9250	6.190	561.3
139	191.25	.39500	657.00	.1545	.1227	.1912	.9130	.5491-02	.8557-02	.9920	6.632	563.4
139	191.25	.40000	658.00	.1641	.1301	.2034	.9130	.5826-02	.9104-02	1.047	7.020	564.3
139	191.25	.40500	659.00	.1576	.1251	.1951	.9130	.5600-02	.8735-02	1.010	6.773	563.7
139	191.25	.41000	660.00	.1638	.1299	.2028	.9130	.5817-02	.9080-02	1.048	7.004	563.9
139	191.25	.41500	661.00	.1614	.1284	.1994	.9130	.5749-02	.8926-02	1.045	6.972	562.2
139	191.25	.42000	662.00	.1803	.1424	.2245	.9130	.6375-02	.1005-01	1.129	7.533	567.0
139	191.25	.42500	663.00	.1932	.1522	.2412	.9130	.6813-02	.1080-01	1.195	7.991	568.6
139	191.25	.43000	664.00	.1934	.1513	.2437	.9130	.6773-02	.1091-01	1.156	7.787	573.3
139	191.25	.44000	665.00	.1382	.1100	.1705	.9130	.4923-02	.7633-02	.8980	6.044	561.7
139	191.25	.45000	666.00	.7620-01	.6140-01	.9270-01	.9130	.2751-02	.4150-02	.5280	3.573	552.0
139	191.25	.45500	667.00	.7410-01	.5970-01	.9010-01	.9130	.2674-02	.4032-02	.5140	3.476	551.9
139	191.25	.46000	668.00	.7730-01	.6220-01	.9430-01	.9130	.2784-02	.4220-02	.5300	3.590	553.8
139	191.25	.47000	669.00	.1005	.8040-01	.1235	.9130	.3598-02	.5529-02	.6670	4.524	558.7
139	191.25	.48000	670.00	.1199	.9570-01	.1476	.9130	.4283-02	.6609-02	.7880	5.342	560.1
139	191.25	.49000	671.00	.1299	.1037	.1598	.9130	.4642-02	.7152-02	.8560	5.788	559.6
139	191.25	.50000	672.00	.1260	.1007	.1548	.9130	.4508-02	.6929-02	.8350	5.774	558.7
139	191.25	.60000	673.00	.6230-01	.5080-01	.7490-01	.9130	.2276-02	.3353-02	.4590	2.947	542.5
139	191.25	.70000	674.00	.4740-01	.3850-01	.5710-01	.9130	.1724-02	.2556-02	.3430	2.332	545.3
139	191.25	.80000	676.00	.3060-01	.2470-01	.3700-01	.9130	.1108-02	.1658-02	.2160	1.364	549.0
139	191.25	.86000	677.00	.3480-01	.2810-01	.4220-01	.9130	.1258-02	.1887-02	.2440	1.560	549.8
139	191.25	.87000	678.00	.5080-01	.4100-01	.6160-01	.9130	.1837-02	.2760-02	.3560	2.290	550.3
139	191.25	.88000	679.00	.6200-01	.5000-01	.7540-01	.9130	.2239-02	.3375-02	.4300	2.801	551.8
139	191.25	.89000	680.00	.6590-01	.5310-01	.8020-01	.9130	.2376-02	.3588-02	.4550	3.005	552.5
139	191.25	.90000	681.00	.6130-01	.4940-01	.7460-01	.9130	.2209-02	.3338-02	.4230	2.843	552.6
139	191.25	.91000	682.00	.5530-01	.4460-01	.6710-01	.9130	.1999-02	.3004-02	.3870	2.814	550.6
139	191.25	.92600	683.00	.1282	.1034	.1584	.9130	.4629-02	.7091-02	.8630	6.280	557.6
139	191.25	.95000	684.00	.2660-01	.2340-01	.3430-01	.9130	.1048-02	.1535-02	.2140	1 548	540.2
139	197.00	.33000	685.00	.3340-01	.2720-01	.4000-01	.9130	.1220-02	.1791-02	.2480	1.669	541.0

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F30)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
139	197.00	.34000	686.00	.3620-01	.2950-01	.4340-01	.9130	.1322-02	.1945-02	.2670	1.800	541.9
139	197.00	.35000	687.00	.4130-01	.3370-01	.4960-01	.9130	.1507-02	.2220-02	.3040	2.047	542.4
139	197.00	.36000	688.00	.5210-01	.4240-01	.6280-01	.9130	.1899-02	.2812-02	.3780	2.546	544.7
139	197.00	.37000	689.00	.6140-01	.4990-01	.7420-01	.9130	.2232-02	.3320-02	.4410	2.964	546.5
139	197.00	.37500	690.00	.7860-01	.6350-01	.9540-01	.9130	.2845-02	.4271-02	.5510	3.710	550.2
139	197.00	.50000	691.00	.1506	.1188	.1878	.9130	.5317-02	.8407-02	.9370	6.228	567.9
139	197.00	.60000	692.00	.6670-01	.5420-01	.8050-01	.9130	.2425-02	.3604-02	.4800	3.094	546.2
139	197.00	.70000	693.00	.9810-01	.7930-01	.1190	.9130	.3551-02	.5326-02	.6890	4.669	549.8
139	197.00	.80000	694.00	.2670-01	.2170-01	.3210-01	.9130	.9727-03	.1435-02	.1950	1.230	543.2
139	197.00	.87000	695.00	.5610-01	.4530-01	.6800-01	.9130	.2027-02	.3046-02	.3920	2.495	550.5
139	197.00	.92600	696.00	.1118	.8950-01	.1370	.9130	.4008-02	.6133-02	.7490	5.453	557.2
141	209.80	.15000-01	697.00	.1672	.1372	.1993	.9132	.6138-02	.8915-02	1.272	8.781	536.1
140	209.80	.30000-01	698.00	.2215	.1773	.2297	.9428	.7938-02	.1028-01	1.483	10.03	557.4
140	209.80	.50000-01	699.00	.2948	.2350	.3138	.9381	.1052-01	.1405-01	1.931	12.19	560.6
140	209.80	.70000-01	700.00	.2702	.2113	.3000	.9321	.9460-02	.1343-01	1.617	10.79	573.3
140	209.80	.10000+00	701.00	.1761	.1408	.2018	.9246	.6300-02	.9034-02	1.169	7.405	558.6
140	209.80	.15000	702.00	.8220-01	.6650-01	.9800-01	.9159	.2975-02	.4386-02	.5790	4.135	549.6
140	209.80	.20000	703.00	.3527-01	.2880-01	.4210-01	.9130	.1291-02	.1883-02	.2660	1.777	538.4
140	209.80	.30000	704.00	.3[illegible]0-01	.2770-01	.4070-01	.9130	.1240-02	.1820-02	.2520	1.791	540.9
140	209.80	.35000	705.00	.4050-01	.3960-01	.5830-01	.9130	.1770-02	.2608-02	.3570	2.448	542.5
140	209.80	.50000	707.00	.6090-01	.4940-01	.7360-01	.9130	.2213-02	.3294-02	.4360	2.987	546.9
140	209.80	.60000	708.00	.8230-01	.6700-01	.9910-01	.9130	.2999-02	.4436-02	.5990	3.826	544.3
140	209.80	.70000	709.00	.3800-01	.3090-01	.4580-01	.9130	.1385-02	.2051-02	.2760	1.761	544.8
140	209.80	.80000	710.00	.1800-01	.1470-01	.2160-01	.9130	.6558-03	.9667-03	.1320	.8240	542.8
140	209.80	.87000	711.00	.2700-01	.2190-01	.3250-01	.9130	.9796-03	.1456-02	.1940	1.224	546.4
140	209.80	.92600	712.00	.5620-01	.4520-01	.6860-01	.9130	.2024-02	.3070-02	.3850	2.786	554.1
140	217.70	.15000-01	713.00	.1123	.9160-01	.1347	.9130	.4102-02	.6029-02	.8310	5.736	541.6
140	217.70	.30000-01	714.00	.2348	.1875	.2424	.9438	.8394-02	.1085-01	1.551	10.48	559.4
140	217.70	.50000-01	715.00	.3150	.2503	.3378	.9391	.1120-01	.1494-01	2.028	13.12	563.1
140	217.70	.70000-01	716.00	.3086	.2361	.3443	.9321	.1057-01	.1541-01	1.674	11.20	585.8
140	217.70	.10000+00	717.00	.1913	.1520	.2191	.9254	.6806-02	.9809-02	1.233	7.936	562.9
140	217.70	.15000	718.00	.8600-01	.6950-01	.1024	.9164	.3112-02	.4581-02	.6040	4.413	550.1
140	217.70	.20000	719.00	.3960-01	.3240-01	.4740-01	.9130	.1452-02	.2121-02	.2980	2.018	538.8
140	217.70	.30000	720.00	.2950-01	.2410-01	.3530-01	.9130	.1078-02	.1579-02	.2200	1.579	540.1
140	217.70	.35000	721.00	.3860-01	.3150-01	.4630-01	.9130	.1409-02	.2071-02	.2850	1.981	541.7
140	217.70	.37500	722.00	.4560-01	.3720-01	.5480-01	.9130	.1665-02	.2453-02	.3350	2.330	542.6
140	217.70	.50000	723.00	.3420-01	.2800-01	.4100-01	.9130	.1253-02	.1836-02	.2550	1.770	540.4
140	217.70	.60000	724.00	.3690-01	.3020-01	.4400-01	.9130	.1352-02	.1971-02	.2790	1.790	537.9
140	217.70	.70000	725.00	.3220-01	.2630-01	.3860-01	.9130	.1179-02	.1730-02	.2400	1.530	540.7
140	217.70	.80000	726.00	.2740-01	.2240-01	.3290-01	.9130	.1001-02	.1473-02	.2020	1.273	542.3
140	217.70	.87000	727.00	.3340-01	.2720-01	.4030-01	.9130	.1219-02	.1802-02	.2440	1.560	544.1
140	217.70	.92600	728.00	.5770-01	.4660-01	.7010-01	.9130	.2086-02	.3139-02	.4020	2.918	551.2

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F31)

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = 10.00 BETA = -3.000 GRIT = 4.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
174	4.520	5.047	10.03	2.900	-16.00	97.00	.3270	665.0	130.8	4.676	2533.	.2098-03
175	4.520	5.051	10.01	2.900	-16.00	97.10	.3270	665.0	130.8	4.680	2533.	.2100-03
176	4.520	5.047	10.01	2.900	-16.00	97.00	.3270	665.0	130.8	4.676	2533.	.2098-03
194	4.520	5.055	10.03	2.900	-16.00	97.00	.3270	664.0	130.6	4.674	2531.	.2100-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
174	.1053-06	.4737-01	.1141-01
175	.1053-06	.4738-01	.1140-01
176	.1053-06	.4736-01	.1141-01
194	.1051-06	.4735-01	.1140-01

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
175	.00000	.30000-02	730.00	.4507	.2978	.3368	.9830	.1411-01	.1596-01	1.383	9.399	567.0
175	.00000	.10300-01	731.00	.2328	.1704	.2925	.9221	.8075-02	.1386-01	1.002	6.924	540.9
175	.00000	.15000-01	732.00	.2316	.1705	.2896	.9221	.8078-02	.1372-01	1.018	6.950	539.1
175	.00000	.25000-01	734.00	.6723	.4140	.5006	.9775	.1962-01	.2372-01	1.698	11.37	578.5
175	.00000	.30000-01	735.00	1.009	.5503	.7055	.9758	.2608-01	.3343-01	1.907	12.76	591.9
175	.00000	.40000-01	737.00	.5927	.3830	.4683	.9743	.1815-01	.2219-01	1.705	10.99	571.1
175	.00000	.45000-01	738.00	.6119	.4006	.4947	.9724	.1898-01	.2344-01	1.828	11.97	568.7
175	.00000	.60000-01	739.00	.5031	.3218	.4219	.9671	.1525-01	.1999-01	1.407	9.332	572.8
175	.00000	.70000-01	740.00	.4397	.2872	.3343	.9636	.1361-01	.1821-01	1.305	8.725	569.2
175	.00000	.80000-01	741.00	.3659	.2413	.3310	.9602	.1143-01	.1569-01	1.116	8.030	567.4
175	.00000	.10000+00	742.00	.3544	.2402	.3424	.9537	.1138-01	.1622-01	1.175	7.788	561.8
175	.00000	.12500	743.00	.3001	.1992	.3123	.9462	.9438-02	.1480-01	.9330	6.718	566.2
175	.00000	.15000	744.00	.2459	.1690	.2722	.9394	.8007-02	.1290-01	.8510	5.883	558.7
175	.00000	.17500	745.00	.1669	.1181	.1934	.9334	.5595-02	.9164-02	.6360	4.771	551.3
175	.00000	.20000	746.00	.1420	.1016	.1716	.9283	.4813-02	.8131-02	.5630	4.022	548.1
175	.00000	.21500	747.00	.1076	.7760-01	.1325	.9257	.3679-02	.6278-02	.4390	3.047	545.6

(HN1(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
175	.00000	.23000	748.00	.8650-01	.6240-01	.1090	.9234	.2955-02	.5166-02	.3520	2.601	546.0
175	.00000	.24000	749.00	.7820-01	.5640-01	.9980-01	.9221	.2674-02	.4727-02	.3190	2.407	545.8
175	.00000	.25000	750.00	.4430-01	.3220-01	.5600-01	.9221	.1528-02	.2654-02	.1870	1.512	543.0
175	.00000	.30000	751.00	.8430-01	.6130-01	.1067	.9221	.2905-02	.5055-02	.3540	2.327	543.2
175	.00000	.35000	752.00	.8320-01	.6100-01	.1043	.9221	.2890-02	.4943-02	.3610	2.286	540.3
175	.00000	.40000	753.00	.7800-01	.5730-01	.9770-01	.9221	.2714-02	.4630-02	.3400	2.192	539.9
175	.00000	.50000	754.00	.9130-01	.6600-01	.1163	.9221	.3127-02	.5509-02	.3750	2.453	545.2
175	.00000	.60000	755.00	.8610-01	.6320-01	.1079	.9221	.2994-02	.5115-02	.3740	2.407	540.1
175	.00000	.70000	756.00	.8010-01	.5870-01	.1005	.9221	.2780-02	.4761-02	.3460	2.292	540.5
175	.00000	.80000	757.00	.7600-01	.5550-01	.9590-01	.9221	.2628-02	.4544-02	.3230	2.028	542.2
175	.00000	.90000	758.00	.4420-01	.3260-01	.5610-01	.9221	.1518-02	.2657-02	.1830	1.188	544.2
175	55.000	.22000	759.00	.8730-01	.6360-01	.1090	.9232	.3012-02	.5166-02	.3690	2.751	542.6
175	55.000	.25000	760.00	.4350-01	.3200-01	.5520-01	.9209	.1514-02	.2617-02	.1890	1.486	540.2
175	55.000	.27000	761.00	.5870-01	.4250-01	.7540-01	.9209	.2014-02	.3571-02	.2430	1.812	544.3
175	55.000	.30000	762.00	.7480-01	.5470-01	.9510-01	.9209	.2592-02	.4508-02	.3210	1.935	541.2
175	55.000	.32000	763.00	.9970-01	.7270-01	.1274	.9209	.3443-02	.6037-02	.4220	2.501	542.5
175	55.000	.34000	764.00	.1089	.7890-01	.1399	.9209	.3737-02	.6631-02	.4510	2.678	544.4
175	55.000	.36000	765.00	.1044	.7600-01	.1336	.9209	.3601-02	.6329-02	.4400	2.649	542.9
175	55.000	.38000	766.00	.1255	.9060-01	.1618	.9209	.4292-02	.7664-02	.5130	3.123	545.4
175	55.000	.40000	767.00	.1778	.1262	.2335	.9209	.5979-02	.1107-01	.6850	4.271	550.5
175	67.500	.23000	768.00	.7060-01	.5180-01	.8950-01	.9210	.2456-02	.4242-02	.3070	2.289	540.2
175	67.500	.25000	769.00	.3880-01	.2860-01	.4940-01	.9200	.1356-02	.2341-02	.1710	1.339	538.6
175	67.500	.27000	770.00	.5620-01	.4090-01	.7240-01	.9200	.1939-02	.3431-02	.2370	.734	542.7
175	67.500	.29000	771.00	.5260-01	.3870-01	.6710-01	.9200	.1833-02	.3181-02	.2300	1.432	539.5
175	67.500	.30000	772.00	.1071	.7760-01	.1385	.9200	.3678-02	.6565-02	.4450	2.724	544.1
175	67.500	.31000	773.00	.1120	.8080-01	.1457	.9200	.3829-02	.6904-02	.4570	2.773	545.6
175	67.500	.32000	774.00	.1207	.8700-01	.1571	.9200	.4124-02	.7444-02	.4920	2.958	545.8
175	67.500	.32500	775.00	.1382	.9930-01	.1806	.9200	.4707-02	.8558-02	.5560	3.355	546.8
175	67.500	.33000	776.00	.1477	.1056	.1941	.9200	.5005-02	.9199-02	.5840	3.527	548.4
175	67.500	.33500	777.00	.1745	.1234	.2322	.9200	.5848-02	.1100-01	.6640	4.005	551.5
175	67.500	.34000	778.00	.1861	.1309	.2491	.9200	.6201-02	.1180-01	.6950	4.189	553.0
175	67.500	.34500	779.00	.2166	.1501	.2949	.9200	.7113-02	.1397-01	.7710	4.649	556.7
175	67.500	.35000	780.00	.2224	.1530	.3054	.9200	.7252-02	.1447-01	.7730	4.673	558.4
175	67.500	.35500	781.00	.2236	.1518	.3120	.9200	.7195-02	.1478-01	.7460	4.511	561.4
175	67.500	.36000	782.00	.2167	.1484	.2993	.9200	.7033-02	.1418-01	.7420	4.495	559.5
175	67.500	.36500	783.00	.2032	.1412	.2758	.9200	.6690-02	.1307-01	.7290	4.411	556.1
175	67.500	.37000	784.00	.1879	.1314	.2532	.9200	.6225-02	.1200-01	.6880	4.190	554.5
175	67.500	.37500	785.00	.1933	.1354	.2601	.9200	.6414-02	.1232-01	.7120	4.369	554.1
175	67.500	.38000	786.00	.1837	.1287	.2469	.9200	.6099-02	.1170-01	.6780	4.172	553.9
176	67.500	.39000	787.00	.1667	.1173	.2229	.9200	.5559-02	.1056-01	.6240	3.857	552.7
176	67.500	.40000	788.00	.1420	.1009	.1879	.9200	.4783-02	.9903-02	.5500	3.429	550.1
176	67.500	.50000	789.00	.8320-01	.6010-01	.1081	.9200	.2850-02	.5121-02	.3420	2.193	545.1
176	67.500	.60000	790.00	.8620-01	.6290-01	.1107	.9200	.2982-02	.5246-02	.3680	2.418	541.8

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT JEG. R /SEC	TW DEG. R
194	67.500	.70000	791.00	.3560-01	.2640-01	.4560-01	.9183	.1250-02	.2160-02	.1610	1.143	535.7
194	67.500	.80000	792.00	.3[illegible]-01	.3840-01	.6820-01	.9183	.1821-02	.3089-02	.2410	1.525	532.3
194	67.500	.90000	793.00	.5600-01	.4130-01	.7210-01	.9183	.1959-02	.3416-02	.2490	1.615	537.3
194	78.000	.27000	794.00	.3120-01	.2320-01	.3990-01	.9185	.1098-02	.1891-02	.1420	1.017	535.4
194	78.000	.29000	795.00	.6860-01	.5090-01	.8810-01	.9185	.2409-02	.4173-02	.3090	1.914	536.3
176	78.000	.30000	796.00	.1618	.1140	.2178	.9193	.5399-02	.1032-01	.6080	3.674	552.5
176	78.000	.31000	797.00	.2216	.1511	.3105	.9193	.7158-02	.1471-01	.7490	4.507	560.5
176	78.000	.32000	798.00	.2633	.1727	.3886	.9193	.8179-02	.1841-01	.7900	4.712	568.4
176	78.000	.32500	799.00	.2858	.1853	.4283	.9193	.8778-02	.2028-01	.8310	4.962	570.4
176	78.000	.33000	800.00	.3129	.2020	.4722	.9193	.9567-02	.2236-01	.8970	5.355	571.2
176	78.000	.33500	801.00	.3707	.2357	.5718	.9193	.1116-01	.2709-01	1.019	6.080	573.7
176	78.000	.34000	802.00	.3857	.2448	.5963	.9193	.1160-01	.2824-01	1.056	6.299	574.0
176	78.000	.34500	803.00	.3357	.2180	.5023	.9193	.1032-01	.2379-01	.9790	5.865	570.2
176	78.000	.35000	804.00	.2975	.1983	.4292	.9193	.9394-02	.2033-01	.9370	5.629	565.3
176	78.000	.35500	805.00	.2712	.1852	.3795	.9193	.8771-02	.1798-01	.9190	5.536	560.2
176	78.000	.36000	806.00	.2735	.1879	.3796	.9193	.8901-02	.1798-01	.9460	5.717	558.7
176	78.000	.36500	807.00	.2004	.1381	.2771	.9193	.6543-02	.1312-01	.7000	4.245	558.0
176	78.000	.37000	808.00	.1706	.1184	.2338	.9193	.5610-02	.1107-01	.6100	3.711	556.3
176	78.000	.37500	809.00	.1502	.1053	.2035	.9193	.4986-02	.9638-02	.5550	3.377	553.8
176	78.000	.38000	810.00	.1386	.9800-01	.1859	.9193	.4639-02	.8805-02	.5260	3.227	551.6
176	78.000	.39000	811.00	.1298	.9230-01	.1729	.9193	.4372-02	.8187-02	.5040	3.098	549.9
176	78.000	.40000	812.00	.1067	.7630-01	.1414	.9193	.3612-02	.6699-02	.4210	2.591	548.6
194	90.000	.40000-01	985.00	.4034	.2784	.3672	.9610	.1318-01	.1738-01	1.414	9.149	557.0
194	90.000	.50000-01	986.00	.4425	.3046	.4145	.9575	.1442-01	.1963-01	1.537	9.887	557.6
194	90.000	.60000-01	987.00	.4009	.2664	.3851	.9541	.1261-01	.1823-01	1.248	8.139	565.2
194	90.000	.70000-01	988.00	.3738	.2524	.3709	.9508	.1195-01	.1756-01	1.222	8.149	561.9
194	90.000	.80000-01	989.00	.3223	.2201	.3295	.9477	.1042-01	.1560-01	1.090	7.676	559.5
194	90.000	.10000+00	990.00	.2717	.1921	.2913	.9418	.9095-02	.1379-01	1.031	6.714	550.8
194	90.000	.15000	991.00	.1503	.1076	.1789	.9299	.5094-02	.8468-02	.5960	4.372	547.3
176	90.000	.20000	813.00	.5020-01	.3690-01	.6440-01	.9192	.1750-02	.3052-02	.2200	1.609	539.1
176	90.000	.24000	814.00	.4160-01	.3050-01	.5370-01	.9187	.1450-02	.2543-02	.1830	1.482	539.2
176	90.000	.27000	816.00	.4150-01	.3040-01	.5390-01	.9187	.1442-02	.2551-02	.1790	1.280	540.6
176	90.000	.29000	817.00	.2025	.1391	.2835	.9187	.6590-02	.1343-01	.7000	4.324	558.8
176	90.000	.30000	818.00	.3075	.1963	.4769	.9187	.9296-02	.2259-01	.8550	5.154	573.1
176	90.000	.31000	819.00	.3154	.2046	.4774	.9187	.9690-02	.2261-01	.9170	5.494	570.4
176	90.000	.32000	820.00	.3137	.2050	.4695	.9187	.9711-02	.2224-01	.9320	5.575	569.0
176	90.000	.32500	821.00	.3296	.2161	.4914	.9187	.1024-01	.2327-01	.9890	5.895	568.5
176	90.000	.33000	822.00	.4109	.2654	.6262	.9187	.1257-01	.2966-01	1.180	7.046	571.2
176	90.000	.33540	823.00	.4601	.2858	.7449	.9187	.1354-01	.3528-01	1.188	7.093	577.3
176	90.000	.34000	824.00	.4190	.2642	.6621	.9187	.1252-01	.3136-01	1.127	6.697	575.0
176	90.000	.34500	825.00	.4437	.2733	.7284	.9187	.1295-01	.3450-01	1.121	6.669	578.5
176	90.000	.35000	826.00	.5736	.3180	1.155	.9187	.1506-01	.5473-01	1.124	6.650	590.4
176	90.000	.36000	828.00	.3688	.2318	.5856	.9187	.1098-01	.2774-01	.9830	5.843	575.5

(IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV#31)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
176	90.000	.36500	829.00	.3094	.2122	.4339	.9187	.1005-01	.2055-01	1.064	6.391	559.2
176	90.000	.37000	830.00	.1458	.1041	.1948	.9187	.4931-02	.9226-02	.5730	3.469	548.9
176	90.000	.37500	831.00	.1079	.7820-01	.1415	.9187	.3705-02	.6702-02	.4480	2.736	544.1
176	90.000	.38000	832.00	.8160-01	5970-01	.1058	.9187	.2830-02	.5012-02	.3520	2.149	540.8
176	90.000	.39000	833.00	.6380-01	.4690-01	.8250-01	.9187	.2221-02	.3907-02	.2780	1.722	539.7
176	90.000	.40000	834.00	.6320-01	.4640-01	.8190-01	.9187	.2195-02	.3880-02	.2740	1.697	540.4
176	90.000	.50000	835.00	.5480-01	.3970-01	.7190-01	.9187	.1880-02	.3405-02	.2270	1.437	544.3
176	90.000	.60000	836.00	.5230-01	.3830-01	.6790-01	.9187	.1815-02	.3215-02	.2260	1.507	540.8
176	90.000	.70000	837.00	.4780-01	.3480-01	.6240-01	.9187	.1649-02	.2957-02	.2020	1.422	542.8
176	90.000	.80000	838.00	.6390-01	.4690-01	.8280-01	.9187	.2219-02	.3924-02	.2760	1.723	540.5
176	90.000	.90000	839.00	.5000-01	.3560-01	.6710-01	.9187	.1685-02	.3179-02	.1940	1.239	549.9
176	112.50	.23000	840.00	.3449-01	.2550-01	.4420-01	.9183	.1209-02	.2091-02	.1560	1.261	536.3
176	112.50	.30000	843.00	.6166-01	.4540-01	.7960-01	.9183	.2152-02	.3772-02	.2720	1.626	538.5
176	112.50	.33000	844.00	.1201	.8670-01	.1588	.9183	.4106-02	.7523-02	.4910	2.964	545.4
176	112.50	.35000	845.00	.1031	.7510-01	.1350	.9183	.3555-02	.6392-02	.4350	2.674	542.6
176	112.50	.37000	846.00	.4200-01	.3110-01	.5400-01	.9183	.1474-02	.2556-02	.1890	1.173	536.6
176	112.50	.40000	847.00	.1350-01	.1010-01	.1710-01	.9183	.4794-03	.8099-03	.6400-01	.4010	531.9
176	112.50	.45000	848.00	.9600-02	.7200-02	.1220-01	.9183	.3388-03	.5776-03	.4500-01	.2820	533.6
176	112.50	.50000	849.00	.2230-01	.1650-01	.2860-01	.9183	.7816-03	.1356-02	.1000+00	.6480	536.7
176	112.50	.55000	850.00	.1960-01	.1450-01	.2510-01	.9183	.6875-03	.1190-02	.8800-01	.5940	536.4
176	112.50	.60000	851.00	.3350-01	.2490 01	.4290-01	.9183	.1180-02	.2031-02	.1530	1.031	535.4
176	112.50	.65000	852.00	.5590-01	.4130-01	.7210-01	.9183	.1957-02	.3414-02	.2490	1.702	537.8
176	112.50	.70000	853.00	.7080-01	.5200-01	.9180-01	.9183	.2465-02	.4348-02	.3090	2.178	539.6
176	112.50	.75000	854.00	.4210-01	.3120-01	.5420-01	.9183	.1477-02	.2567-02	.1890	1.232	537.1
176	112.50	.80000	855.00	.4700-01	.3490-01	.6030-01	.9183	.1654-02	.2856-02	.2140	1.397	535.9
176	112.50	.90000	856.00	.8510-01	.6260-01	.1104	.9183	.2963-02	.5229-02	.3720	2.418	539.7
176	125.40	.84000	857.00	.5640-01	.4180-01	.7250-01	.9183	.1980-02	.3432-02	.2540	1.579	536.6
176	125.40	.85000	858.00	.5530-01	.4100-01	.7100-01	.9183	.1942-02	.3362-02	.2500	1.561	536.4
176	125.40	.86000	859.00	.4120-01	.3060-01	.5280-01	.9183	.1449-02	.2501-02	.1870	1.179	535.9
176	125.40	.87000	860.00	.4900-01	.3630-01	.6300-01	.9183	.1719-02	.2985-02	.2200	1.391	536.9
176	125.40	.88000	861.00	.5310-01	.3920-01	.6850-01	.9183	.1857-02	.3242-02	.2350	1.491	537.9
176	125.40	.89000	862.00	.6880-01	.5050-01	.8930-01	.9183	.2390-02	.4230-02	.2980	1.893	540.1
176	125.40	.90000	863.00	.6540-01	.4800-01	.8490-01	.9183	.2272-02	.4021-02	.2840	1.810	540.1
176	125.40	.91000	864.00	.5270-01	.3860-01	.6870-01	.9183	.1827-02	.3253-02	.2260	1.651	541.1
176	125.40	.92600	865.00	.1272	.9060-01	.1710	.9183	.4290-02	.8099-02	.4960	3.586	549.5
176	129.30	.80000	866.00	.5270-01	.3900-01	.6770-01	.9183	.1849-02	.3203-02	.2370	1.499	536.7
176	129.30	.81000	867.00	.4140-01	.3060-01	.5320-01	.9183	.1451-02	.2521-02	.1860	1.166	537.0
176	129.30	.82000	868.00	.3750-01	.2780-01	.4820-01	.9183	.1319-02	.2281-02	.1700	1.067	536.2
176	129.30	.83000	869.00	.4890-01	.3620-01	.6290-01	.9183	.1713-02	.2978-02	.2190	1.381	537.1
176	135.00	.40000-01	870.00	.3024	.2136	.3070	.9482	.1011-01	.1454-01	1.144	7.339	551.9
176	135.00	.50000-01	871.00	.3369	.2374	.3518	.9449	.1124-01	.1666-01	1.266	8.070	552.5
176	135.00	.60000-01	872.00	.2671	.1853	.2878	.9418	.8776-02	.1363-01	.9530	6.299	556.4
176	135.00	.70000-01	873.00	.2389	.1673	.2639	.9389	.7925-02	.1250-01	.8790	5.961	554.1

DATE 03 JUN 76 AEDC V41A-A4A (H-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F31)

(H41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DAT?

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
176	135.00	.10000+00	875.00	.1664	.1205	.1938	.9314	.5709-02	.9181-02	.6890	4.529	344.3
176	135.00	.15000	876.00	.8790-01	.6450-01	.1099	.9225	.3056-02	.5205-02	.3820	2.802	540.2
176	135.00	.20000	877.00	.3520-01	.2630-01	.4480-01	.9185	.1246-02	.2124-02	.1640	1.111	533.8
176	135.00	.35000	878.00	.3200-01	.2390-01	.4070-01	.9183	.1131-02	.1928-02	.1490	.9290	533.6
176	135.00	.40000	879.00	.1570-01	.1170-01	.1990-01	.9183	.5560-03	.9437-03	.7400-01	.4690	532.8
176	135.00	.55000	881.00	.2180-01	.1610-01	.2800-01	.9183	.7622-03	.1327-02	.9700-01	.6510	537.3
176	135.00	.60000	882.00	.3740-01	.2750-01	.4830-01	.9183	.1303-02	.2290-02	.1640	1.108	539.0
176	135.00	.65000	883.00	.5110-01	.3760-01	.6610-01	.9183	.1783-02	.3133 02	.2250	1.540	539.0
176	135.00	.70000	884.00	.3270-01	.2400-01	.4250-01	.9183	.1137-02	.2012-02	.1420	1.012	540.1
176	135.00	.75000	885.00	.2790 01	.2050-01	.3620-01	.9183	.9723-03	.1715-02	.1220	.7720	539.6
176	135.00	.80000	886.00	.2440-01	.1800-01	.3140-01	.9183	.8543-03	.1485-02	.1090	.6900	537.2
194	135.00	.84000	887.00	.8670-01	.6440-01	.1100	.9196	.3050-02	.5211-02	.3930	2.484	535.7
194	135.00	.85000	888.00	.4980-01	.3700-01	.6370-01	.9183	.1752-02	.3015-02	.2270	1.447	534.7
194	135.00	.86000	889.00	.4600-01	.3440-01	.5850-01	.9183	.1630-02	.2769-02	.2150	1.369	532.3
194	135.00	.87000	890.00	.6220-01	.4650-01	.7930-01	.9183	.2200-02	.3754-02	.2880	1.845	533.1
194	135.00	.89000	892.00	.8090-01	.5990-01	.1040	.9183	.2835-02	.4923-02	.3630	2.373	536.2
194	135.00	.90000	893.00	.7620-01	.5620-01	.9850-01	.9183	.2661-02	.4665-02	.3360	2.223	537.9
194	135.00	.91000	894.00	.6490-01	.4790-01	.8380-01	.9183	.2266-02	.3968-02	.2870	2.101	537.7
194	135.00	.95000	896.00	.5990-01	.4480-01	.7620-01	.9183	.2120-02	.3606-02	.2790	2.032	532.5
194	142.30	.42000	897.00	.5030-01	.3770-01	.6400-01	.9183	.1784-02	.3028-02	.2360	1.526	532.1
194	142.30	.43500	898.00	.5880-01	.4390-01	.7510-01	.9183	.2077-02	.3554-02	.2710	1.706	533.6
194	142.30	.45000	899.00	.2920-01	.2190-01	.3690-01	.9183	.1037-02	.1747-02	.1380	.9140	530.6
194	142.30	.50000	900.00	.8700-02	.6500-02	.1100-01	.9183	.3075-03	.5198-03	.4100-01	.2740	531.3
194	142.30	.60000	901.00	.3880-01	.2910-01	.4930-01	.9183	.1377-02	.2332-02	.1820	1.221	531.7
194	142.30	.70000	902.00	.5160-01	.3830-01	.6640-01	.9183	.1812-02	.3142-02	.2320	1.593	536.0
194	142.30	.80000	903.00	.4640-01	.3450-01	.5920-01	.9183	.1635-02	.2804-02	.2130	1.362	534.0
194	142.30	.87000	904.00	.4760-01	.3520-01	.6130-01	.9183	.1669-02	.2903-02	.2130	1.352	536.6
194	154.98	.42000	905.00	.8150-01	.6020-01	.1052	.9183	.2850-02	.4979-02	.3620	2.344	537.3
194	154.98	.43500	906.00	.7860-01	.5830-01	.1007	.9183	.2761-02	.4769-02	.3560	2.322	535.3
194	154.98	.45000	907.00	.9070-01	.6690-01	.1171	.9183	.3167-02	.554? 02	.4010	2.626	537.5
194	154.98	.50000	908.00	.4950-01	.3680-01	.6350-01	.9183	.1742-02	.3006-02	.2250	1.617	535.0
194	154.98	.93500	913.00	.3982	.2680	.5755	.9183	.1269-01	.2725-01	1.289	9.296	562.6
194	154.98	.94500	914.00	.2804	.1921	.3959	.9183	.9094-02	.1874-01	.9590	6.860	558.8
194	157.50	.80000-01	919.00	.1876	.1362	.2164	.9324	.6447-02	.1024-01	.7800	5.336	543 .
194	157.50	.20000	922.00	.2500-01	.1880-01	.3150-01	.9183	.8923-03	.1491-02	.1210	.8100	529.1
194	157.50	.42000	923.00	.8180-01	.6070-01	.1050	.9183	.2872-02	.4972-02	.3690	2.421	535.7
194	157.50	.43500	924.00	.8420-01	.6210-01	.1086	.9183	.2941-02	.5142-02	.3730	2.450	537.4
194	157.50	.45000	925.00	.6270-01	.4640-01	.8060-01	.9183	.2196-02	.3816-02	.2810	1.852	536.4
194	157.50	.85000	926.00	.4930-01	.3670-01	.6300-01	.9183	.1735-02	.2985-02	.2250	1.464	534.6
194	157.50	.86000	927.00	.5110-01	.3780-01	.6580-01	.9183	.1788-02	.3114-02	.2280	1.485	536.7
194	157.50	.87000	928.00	.6710-01	.4960-01	.8660-01	.9183	.2346-02	.4098-02	.2980	1.947	537.2
194	157.50	.88000	929.00	.9540-01	.7000-01	.1240	.9183	.3314-02	.5873-02	.4130	2.710	539.7
194	157.50	.89000	930.00	.1100	.7990-01	.1445	.9183	.3783-02	.6840-02	.4590	3.030	542.7

(RV7F31)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
194	157.50	.91000	932.00	.4410-01	.3190-01	.5800-01	.9183	.1512-02	.2748-02	.1820	1.338	543.6
194	157.50	.92600	933.00	.1665	.1162	.2294	.9183	.5504-02	.1086-01	.6050	4.400	554.2
194	163.12	.41500	934.00	.8280-01	.6130-01	.1064	.9183	.2901-02	.5039-02	.3710	2.419	536.3
194	163.12	.42000	935.00	.8400-01	.6190-01	.1085	.9183	.2932-02	.5137-02	.3710	2.437	537.8
194	163.12	.43000	937.00	.9880-01	.7170-01	.1298	.9183	.3395-02	.6144-02	.4120	2.708	542.9
194	163.12	.44000	938.00	.1030	.7500-01	.1349	.9183	.3550-02	.6385-02	.4340	2.845	542.0
194	163.12	.44500	939.00	.9050-01	.6600-01	.1182	.9183	.3125-02	.5598-02	.3840	2.556	541.4
194	163.12	.45000	940.00	.8510-01	.6220-01	.1108	.9183	.2947-02	.5246-02	.3650	2.430	540.4
194	163.12	.50000	941.00	.3950-01	.2920-01	.5080-01	.9183	.1383-02	.2404-02	.1770	1.206	535.4
194	163.12	.60000	942.00	.5890-01	.4400-01	.7500-01	.9183	.2081-02	.3551-02	.2730	1.772	533.1
194	163.12	.70000	943.00	.3860-01	.2890-01	.4910-01	.9183	.1367-02	.2322-02	.1800	1.247	532.3
194	163.12	.80000	944.00	.3690-01	.2770-01	.4680-01	.9183	.1310-02	.2217-02	.1740	1.142	531.6
194	168.00	.35000	945.00	.3070-01	.2310-01	.3870-01	.9183	.1093-02	.1854-02	.1470	.9390	529.8
194	168.00	.36000	946.00	.3680-01	.2770-01	.4650-01	.9183	.1312-02	.2230-02	.1760	1.132	529.7
194	168.00	.37000	947.00	.4500-01	.3380-01	.5700-01	.9183	.1600-02	.2699-02	.2130	1.369	531.0
194	168.00	.37500	948.00	.5570-01	.4160-01	.7080-01	.9183	.1971-02	.3352-02	.2600	1.667	532.5
194	168.00	.38500	950.00	.6080-01	.4540-01	.7740-01	.9183	.2149-02	.3665-02	.2820	1.831	533.0
194	168.00	.39000	951.00	.7010-01	.5210-01	.8960-01	.9183	.2469-02	.4242-02	.3200	2.092	534.4
194	168.00	.39500	952.00	.7790-01	.5780-01	.9990-01	.9183	.2735-02	.4730-02	.3520	2.263	535.5
194	168.00	.40000	953.00	.8550-01	.6330-01	.1101	.9183	.2996-02	.5214-02	.3820	2.498	536.6
194	168.00	.40500	954.00	.8230-01	.6050-01	.1066	.9183	.2866-02	.5048-02	.3608	2.357	538.7
194	168.00	.41000	955.00	.8950-01	.6540-01	.1168	.9183	.3096-02	.5529-02	.3820	2.498	540.9
194	168.00	.41500	956.00	.1198	.8680-01	.1578	.9183	.4110-02	.7472-02	.4960	3.249	543.6
194	168.00	.42000	957.00	.1148	.8310-01	.1515	.9183	.3934-02	.7173-02	.4730	3.106	544.0
194	168.00	.42500	958.00	.9310-01	.6830-01	.1210	.9183	.3232-02	.5730-02	.4020	2.650	539.7
194	168.00	.43000	959.00	.1316	.9330-01	.1779	.9183	.4417-02	.8425-02	.5040	3.292	550.1
194	168.00	.44000	960.00	.9790-01	.7050-01	.1299	.9183	.3340-02	.6150-02	.3970	2.605	545.4
194	168.00	.44500	961.00	.8280-01	.6010-01	.1088	.9183	.2846-02	.5153-02	.3450	2.268	543.0
194	168.00	.45000	962.00	.1048	.7630-01	.1373	.9183	.3613-02	.6501-02	.4410	2.921	542.0
194	168.00	.45500	963.00	.9830-01	.7180-01	.1284	.9183	.3399-02	.6080-02	.4180	2.770	541.1
194	168.00	.46000	964.00	.7510-01	.5490-01	.9780-01	.9183	.2599-02	.4632-02	.3210	2.141	540.5
194	168.00	.47000	965.00	.7440-01	.5460-01	.9670-01	.9183	.2586-02	.4578-02	.3220	2.156	539.5
194	168.00	.48000	966.00	.6240-01	.4600-01	.8070-01	.9183	.2177-02	.3819-02	.2750	1.856	537.9
194	168.00	.49000	967.00	.5050-01	.3750-01	.6460-01	.9183	.1775-02	.3061-02	.2290	1.550	535.0
194	168.00	.85000	968.00	.3990-01	.2980-01	.5080-01	.9183	.1412-02	.2407-02	.1850	1.211	532.9
194	168.00	.86000	969.00	.5940-01	.4410-01	.7620-01	.9183	.2089-02	.3610-02	.2690	1.760	535.4
194	168.00	.87000	970.00	.1231	.9050-01	.1597	.9183	.4282-02	.7559-02	.5360	3.511	539.0
194	168.00	.88000	971.00	.1309	.9560-01	.1709	.9183	.4528-02	.8091-02	.5580	3.661	541.0
194	168.00	.89000	972.00	.1216	.8820-01	.1599	.9183	.4176-02	.7571-02	.5050	3.361	543.2
194	168.00	.90000	973.00	.8730-01	.6310-01	.1153	.9183	.2988-02	.5457-02	.3580	2.442	544.2
194	168.00	.91000	974.00	.3050-01	.2200-01	.4030-01	.9183	.1043-02	.1908-02	.1250	.9110	544.1
194	168.00	.92600	975.00	.8340-01	.5700-01	.1179	.9183	.2700-02	.5584-02	.2840	2.043	559.1
194	168.00	.95000	976.00	.1127	.8380-01	.1443	.9183	.3967-02	.6832-02	.5130	3.718	534.8

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F31)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
194	180.00	.20000-01	982.00	.9030-01	.6710-01	.9290-01	.9460	.3179-02	.4399-02	.4110	2.878	534.8
194	180.00	.25000-01	983.00	.1163	.8620-01	.1213	.9441	.4079-02	.5742-02	.5230	3.631	536.0
194	180.00	.30000-01	984.00	.1709	.1261	.1806	.9426	.5924-02	.8552-02	.7350	5.064	540.1
174	180.00	.40000-01	600.00	.2111	.1513	.2268	.9413	.7166-02	.1074-01	.8410	5.404	547.7
174	180.00	.50000-01	601.00	.2218	.1590	.2446	.9382	.7530-02	.1158-01	.8840	5.701	547.6
174	180.00	.60000-01	602.00	.2055	.1453	.2338	.9354	.6881-02	.1107-01	.7810	5.189	551.6
174	180.00	.70000-01	603.00	.1927	.1368	.2243	.9328	.6478-02	.1062-01	.7430	5.058	550.5
174	180.00	.80000-01	604.00	.1803	.1286	.2141	.9304	.6093-02	.1014-01	.7070	4.894	549.0
174	180.00	.10000+00	605.00	.1164	.8440-01	.1420	.9262	.3998-02	.6727-02	.4830	3.479	544.2
174	180.00	.15000	606.00	.5680-01	.4170-01	.7270-01	.9196	.1976-02	.3445-02	.2480	1.808	539.7
174	180.00	.20000	607.00	.2080-01	.1540-01	.2660-01	.9183	.7307-03	.1259-02	.9500-01	.6210	535.6
174	180.00	.21000	608.00	.1440-01	.1070-01	.1840-01	.9183	.5056-03	.8710-03	.6500-01	.4550	535.6
174	180.00	.22000	609.00	.1160-01	.8600-02	.1490-01	.9183	.4089-03	.7059-03	.5300-01	.3950	535.9
174	180.00	.30000	610.00	.5440-01	.4020-01	.7020-01	.9183	.1902-02	.3323-02	.2420	1.661	538.0
174	180.00	.35000	611.00	.3560-01	.2620-01	.4610-01	.9183	.1243-02	.2181-02	.1570	1.051	538.7
174	180.00	.36000	612.00	.4600-01	.3380-01	.5970-01	.9183	.1601-02	.2828-02	.2000	1.352	539.9
174	180.00	.37000	613.00	.6400-01	.4670-01	.8380-01	.9183	.2210-02	.3969-02	.2710	1.824	542.5
174	180.00	.37500	614.00	.9200-01	.6630-01	.1218	.9183	.3142-02	.5771-02	.3750	2.521	545.8
174	180.00	.38000	615.00	.1347	.9570-01	.1815	.9183	.4535-02	.8596-02	.5210	3.499	550.1
174	180.00	.38500	616.00	.1612	.1132	.2207	.9183	.5360-02	.1045-01	.5980	4.004	553.6
174	180.00	.39000	617.00	.2160	.1495	.3007	.9183	.7082-02	.1424-01	.7650	5.103	557.0
174	180.00	.39500	618.00	.2315	.1587	.3266	.9183	.7515-02	.1547-01	.7940	5.320	559.4
174	180.00	.40000	619.00	.2441	.1668	.3456	.9183	.7899-02	.1677-01	.8290	5.520	560.1
174	180.00	.40500	620.00	.2359	.1613	.3338	.9183	.7641-02	.1581-01	.8040	5.365	559.9
174	180.00	.41000	621.00	.2271	.1560	.3192	.9183	.7390-02	.1512-01	.7860	5.248	558.8
174	180.00	.41500	622.00	.2157	.1484	.3027	.9183	.7029-02	.1434-01	.7490	4.992	558.5
174	180.00	.42500	624.00	.2323	.1579	.3311	.9183	.7481-02	.1568-01	.7770	5.170	561.2
174	180.00	.43000	625.00	.2262	.1530	.3248	.9183	.7246-02	.1538-01	.7440	4.964	562.3
174	180.00	.44000	626.00	.1895	.1312	.2639	.9183	.6214-02	.1250-01	.6710	4.490	557.0
174	180.00	.44500	627.00	.1427	.1007	.1939	.9183	.4769-02	.9184-02	.5390	3.647	552.0
174	180.00	.45000	628.00	.1092	.7840-01	.1453	.9183	.3714-02	.6883-02	.4380	2.972	547.1
174	180.00	.45500	629.00	.8490-01	.6160-01	.1117	.9183	.2920-02	.5291-02	.3540	2.442	543.8
174	180.00	.46000	630.00	.7280-01	.5310-01	.9520-01	.9183	.2513-02	.4508-02	.3090	2.080	542.3
174	180.00	.47000	631.00	.6420-01	.4660-01	.8430-01	.9183	.2210-02	.3994-02	.2690	1.809	543.5
174	180.00	.48000	632.00	.1166	.8400-01	.1546	.9183	.3980-02	.7324-02	.4740	3.204	546.1
174	180.00	.49000	633.00	.9150-01	.6550-01	.1224	.9183	.3102-02	.5792-02	.3620	2.471	548.2
174	180.00	.50000	634.00	.1033	.7370-01	.1387	.9183	.3490-02	.6572-02	.4040	2.825	549.2
174	180.00	.55000	635.00	.7140-01	.5170-01	.9410-01	.9183	.2448-02	.4457-02	.2950	1.963	544.5
174	180.00	.60000	636.00	.7000-01	.5130-01	.9090-01	.9183	.2432-02	.4305-02	.3040	1.965	540.2
174	180.00	.65000	637.00	.4560-01	.3370-01	.5870-01	.9183	.1596-02	.2778-02	.2040	1.325	537.3
174	180.00	.70000	638.00	.4150-01	.3050-01	.5370-01	.9183	.1444-02	.2543-02	.1810	1.247	539.4
174	180.00	.75000	639.00	.2010-01	.1480-01	.2590-01	.9183	.7009-03	.1226-02	.8900-01	.5760	538.3
174	180.00	.80000	640.00	.3610-01	.2660-01	.4690-01	.9183	.1258-02	.2220-02	.1580	.9520	539.7

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F31)

RUN NUMBER	PHI	X/L	T.C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
174	180.00	.85000	641.00	.5650-01	.4130-01	.7370-01	.9183	.1955-02	.3490-02	.2420	1.531	541.5
174	180.00	.86000	642.00	.8240-01	.5990-01	.1080	.9183	.2839-02	.5114-02	.3470	2.227	543.0
174	180.00	.87000	643.00	.1056	.7630-01	.1396	.9183	.3613-02	.6613-02	.4330	2.792	545.3
174	180.00	.88000	644.00	.1192	.8540-01	.1591	.9183	.4046-02	.7555-02	.4750	3.087	547.7
174	180.00	.89000	645.00	.1162	.8280-01	.1562	.9183	.3922-02	.7398-02	.4540	2.982	549.4
174	180.00	.90000	646.00	.6420-01	.4580-01	.8610-01	.9183	.2171-02	.4079-02	.2520	1.694	548.9
174	180.00	.92600	648.00	.4580-01	.7020-01	.6780-01	.9183	.1433-02	.3214-02	.1400	1.014	567.0
174	180.00	.95000	649.00	.3940-01	.2890-01	.5120-01	.9183	.1371-02	.2426-02	.1710	1.242	540.1
174	191.25	.35000	650.00	.3040-01	.2230-01	.3950-01	.9183	.1057-02	.1873-02	.1320	.8890	540.4
174	191.25	.36000	651.00	.5010-01	.3680-01	.6510-01	.9183	.1742-02	.3085-02	.2170	1.471	540.3
174	191.25	.37000	652.00	.6510-01	.4740-01	.8530-01	.9183	.2246-02	.4038-02	.2750	1.851	542.7
174	191.25	.37500	653.00	.8200-01	.5950-01	.1079	.9183	.2817-02	.5109-02	.3410	2.305	543.9
174	191.25	.38000	654.00	.1080	.7770-01	.1435	.9183	.3679-02	.6798-02	.4360	2.939	546.6
174	191.25	.38500	655.00	.1237	.8830-01	.1658	.9183	.4184-02	.7854-02	.4860	3.276	548.8
174	191.25	.39000	656.00	.1642	.1158	.2233	.9183	.5485-02	.1058-01	.6190	4.163	552.2
174	191.25	.39500	657.00	.1955	.1371	.2678	.9183	.6492-02	.1268-01	.7230	4.855	553.8
174	191.25	.40000	658.00	.2170	.1509	.3004	.9183	.7147-02	.1423-01	.7800	5.253	555.9
174	191.25	.40500	659.00	.1967	.1361	.2740	.9183	.6447-02	.1298-01	.6960	4.683	557.1
174	191.25	.41000	660.00	.2249	.1550	.3150	.9183	.7341-02	.1492-01	.7850	5.263	558.1
174	191.25	.41500	661.00	.2226	.1541	.3102	.9183	.7297-02	.1469 01	.7880	5.267	557.1
174	191.25	.42000	662.00	.2686	.1813	.3867	.9183	.8587-02	.1832-01	.8780	5.874	562.8
174	191.25	.42500	663.00	.2996	.1990	.4408	.9183	.9428-02	.2088-01	.9340	6.255	566.0
174	191.25	.43000	664.00	.3197	.2078	.4856	.9183	.9840-02	.2300-01	.9340	6.303	570.1
174	191.25	.44000	665.00	.2103	.1453	.2935	.9183	.6880-02	.1390-01	.7400	4.993	557.5
174	191.25	.45000	666.00	.1066	.7690-01	.1414	.9183	.3640-02	.6696-02	.4330	2.941	546.0
174	191.25	.45500	667.00	.8460-01	.6140-01	.1112	.9183	.2908-02	.5267-02	.3530	2.397	543.7
174	191.25	.46000	668.00	.7350-01	.5340-01	.9660-01	.9183	.2530-02	.4576-02	.3080	2.096	543.5
174	191.25	.47000	669.00	.8070-01	.5940-01	.1065	.9183	.2768-02	.5042-02	.3340	2.279	544.6
174	191.25	.48000	670.00	.1512	.1072	.2044	.9183	.5076-02	.9679-02	.5830	3.949	550.8
174	191.25	.49000	671.00	.1702	.1193	.2334	.9183	.5652-02	.1105-01	.6290	4.263	553.8
174	191.25	.50000	672.00	.1625	.1138	.2229	.9183	.5391-02	.1056-01	.5990	4.146	554.0
174	191.25	.70000	674.00	.8180-01	.5950-01	.1073	.9183	.2817-02	.5084-02	.3430	2.339	543.2
174	191.25	.85000	676.00	.4700-01	.3440-01	.6130-01	.9183	.1628-02	.2905-02	.2010	1.275	541.5
174	191.25	.86000	677.00	.5450-01	.3960-01	.7150-01	.9183	.1877-02	.3387-02	.2290	1.465	543.2
174	191.25	.87000	678.00	.4840-01	.3500-01	.6410-01	.9183	.1657-02	.3035-02	.1980	1.279	545.4
174	191.25	.88000	679.00	.7050-01	.5050-01	.9410-01	.9183	.2391-02	.4455-02	.2800	1.829	547.8
174	191.25	.89000	680.00	.1057	.7520-01	.1422	.9183	.3562-02	.6734-02	.4110	2.717	549.7
174	191.25	.90000	681.00	.1088	.7680-01	.1476	.9183	.3640-02	.6993-02	.4120	2.774	551.8
174	191.25	.91000	682.00	.4050-01	.2870-01	.5470-01	.9183	.1361-02	.2591-02	.1560	1.134	550.6
174	191.25	.92600	683.00	.4910-01	.3390-01	.6950-01	.9183	.1607-02	.3290-02	.1710	1.241	558.9
174	191.25	.95000	684.00	.2550-01	.1870-01	.3300-01	.9183	.8863-03	.1564-02	.1110	.8050	539.7
174	197.00	.33000	685.00	.3350-01	.2470-01	.4330-01	.9183	.1168-02	.2049-02	.1480	.9960	538.7
174	197.00	.34000	686.00	.3770-01	.2770-01	.4880-01	.9183	.1313-02	.2313-02	.1650	1.113	539.4

ORIGINAL PAGE IS
OF POOR QUALITY

DATE 03 JUN 76 AEDC VKIA-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F31)

IH41(AEDC VKIA-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
174	197.00	.35000	687.00	.4350-01	.3190-01	.5640-01	.9183	.1512-02	.2670-02	.1850	1.278	539.8
174	197.00	.35000	688.00	.4900-01	.3590-01	.6380-01	.9183	.1701-02	.3023-02	.2110	1.425	540.8
174	197.00	.37000	689.00	.5240-01	.3830-01	.6850-01	.9183	.1814-02	.3243-02	.2240	1.507	541.8
174	197.00	.37500	690.00	.5780-01	.4180-01	.7630-01	.9183	.1981-02	.3616-02	.2380	1.607	544.9
174	197.00	.50000	691.00	.2442	.1614	.3619	.9183	.7644-02	.1714-01	.7500	4.988	567.0
174	197.00	.60000	692.00	.7980-01	.5810-01	.1047	.9183	.2751-02	.4959-02	.3360	2.170	543.0
174	197.00	.70000	693.00	.1536	.1094	.2066	.9183	.5180-02	.9785-02	.5980	4.050	549.6
174	197.00	.80000	694.00	.1680-01	.1240-01	.2180-01	.9183	.5856-03	.1031-02	.7400-01	.4640	539.3
194	197.00	.87000	695.00	.1308	.9320-01	.1746	.9190	.4415-02	.8272-02	.5100	3.249	549.3
194	197.00	.92600	696.00	.5490-01	.3590-01	.8200-01	.9190	.1700-02	.3884-02	.1630	1.179	569.1
194	209.80	.15000-01	697.00	.2120	.1548	.2759	.9187	.7333-02	.1307-01	.9030	6.218	541.7
175	209.80	.30000-01	698.00	.1822	.1332	.1928	.9425	.6310-02	.9134-02	.7800	5.322	541.4
175	209.80	.50000-01	699.00	.2437	.1777	.2673	.9381	.8418-02	.1266-01	1.033	6.583	542.3
175	209.80	.70000-01	700.00	.2524	.1784	.2948	.9327	.8452-02	.1397-01	.9580	6.462	551.7
175	209.80	.10000+00	701.00	.1638	.1200	.1984	.9262	.5685-02	.9402-02	.7060	4.514	540.8
175	209.80	.15000	702.00	.5970-01	.4450-01	.7540-01	.9196	.2109-02	.3573-02	.2750	1.981	534.6
175	209.80	.20000	703.00	.2900-01	.2180-01	.3660-01	.9183	.1034-02	.1736-02	.1390	.9320	530.7
175	209.80	.30000	704.00	.3440-01	.2560-01	.4410-01	.9183	.1211-02	.2088-02	.1570	1.117	535.7
175	209.80	.35000	705.00	.4560-01	.3380-01	.5840-01	.9183	.1605-02	.2767-02	.2070	1.425	535.9
175	209.80	.37500	706.00	.7290-01	.5380-01	.9420-01	.9183	.2547-02	.4464-02	.3220	2.223	538.5
175	209.80	.50000	707.00	.1097	.7940-01	.1448	.9133	.3760-02	.6862-02	.4520	3.096	544.9
175	209.80	.60000	708.00	.8580-01	.6430-01	.1088	.9183	.3047-02	.5153-02	.4050	2.602	532.1
175	209.80	.70000	709.00	.5950-01	.4420-01	.7620-01	.9183	.2094-02	.3609-02	.2710	1.738	535.6
175	209.80	.80000	710.00	.2650-01	.1990-01	.3370-01	.9183	.9416-03	.1595-02	.1250	.7840	532.4
175	209.80	.87000	711.00	.4150-01	.3080-01	.5330-01	.9183	.1458-02	.2525-02	.1870	1.190	536.5
175	209.80	.92600	712.00	.5080-01	.3710-01	.6630-01	.9183	.1756-02	.3142-02	.2160	1.576	541.9
175	217.70	.15000-01	713.00	.1165	.8700-01	.1483	.9183	.4122-02	.7026-02	.5420	3.758	533.6
175	217.70	.30000-01	714.00	.1917	.1403	.2019	.9431	.6646-02	.9567-02	.8240	5.621	541.1
175	217.70	.50000-01	715.00	.2596	.1889	.2837	.9387	.8951-02	.1344-01	1.093	7.143	543.0
175	217.70	.70000-01	716.00	.2860	.1964	.3378	.9332	.9308-02	.1601-01	.9880	6.704	558.8
175	217.70	.10000+00	717.00	.1818	.1324	.2203	.9266	.6273-02	.1044-01	.7680	4.989	542.7
175	217.70	.15000	718.00	.7270-01	.5390-01	.9210-01	.9198	.2556-02	.4364-02	.3290	2.421	536.3
175	217.70	.20000	719.00	.3270-01	.2460-01	.4130-01	.9183	.1166-02	.1958-02	.1570	1.066	530.6
175	217.70	.30000	720.00	.3520-01	.2610-01	.4500-01	.9183	.1238-02	.2134-02	.1600	1.153	535.6
175	217.70	.35000	721.00	.4260-01	.3160-01	.5470-01	.9183	.1495-02	.2592-02	.1920	1.338	536.6
175	217.70	.37500	722.00	.6210-01	.4580-01	.8020-01	.9183	.2171-02	.3793-02	.2760	1.918	538.2
175	217.70	.50000	723.00	.4830-01	.3590-01	.6190-01	.9183	.1700-02	.2935-02	.2190	1.524	535.9
175	217.70	.60000	724.00	.4870-01	.3650-01	.6160-01	.9183	.1732-02	.2919-02	.2310	1.490	531.5
175	217.70	.70000	725.00	.3720-01	.2780-01	.4730-01	.9183	.1317-02	.2241-02	.1740	1.111	533.2
175	217.70	.80000	726.00	.2930-01	.2190-01	.3720-01	.9183	.1040-02	.1762-02	.1380	.8730	532.5
175	217.70	.87000	727.00	.3450-01	.2560-01	.4410-01	.9183	.1214-02	.2088-02	.1580	1.014	535.2
175	217.70	.92600	728.00	.6320-01	.4580-01	.8310-01	.9183	.2171-02	.3938-02	.2630	1.914	544.0

(IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F31)

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = 10.00 BETA = -3.000 GRIT = 4.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
122	5.500	4.964	10.01	2.900	-16.00	177.7	.1910	742.0	105.3	4.044	2766.	.1522-03
142	5.500	4.974	10.03	2.900	-16.00	177.7	.1910	741.0	105.1	4.043	2764.	.1524-03
143	5.500	4.954	10.04	2.900	-16.00	177.7	.1910	743.0	105.4	4.043	2767.	.1520-03
144	5.500	4.979	10.05	2.900	-16.00	177.8	.1910	741.0	105.1	4.047	2763.	.1525-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
122	.8478-07	.4475-01	.1365-01
142	.8465-07	.4474-01	.1363-01
143	.8488-07	.4475-01	.1366-01
144	.8464-07	.4475-01	.1363-01

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
143	.00000	.30000-02	730.00	.4608	.3472	.3843	.9804	.1554-01	.1720-01	2.343	15.72	592.5
143	.00000	.10300-01	731.00	.2147	.1733	.2532	.9182	.7754-02	.1133-01	1.493	10.27	550.7
143	.00000	.15000-01	732.00	.1971	.1597	.2315	.9182	.7149-02	.1036-01	1.402	9.535	547.2
143	.00000	.25000-01	734.00	.6331	.4575	.5303	.9753	.2047-01	.2373-01	2.743	18.09	609.3
143	.00000	.30000-01	735.00	.9324	.6263	.7574	.9736	.2803-01	.3390-01	3.174	20.85	630.1
143	.00000	.40000-01	737.00	.5910	.4372	.5113	.9722	.1957-01	.2288-01	2.794	17.75	600.5
143	.00000	.45000-01	738.00	.5740	.4270	.5032	.9704	.1911-01	.2252-01	2.772	17.89	598.2
143	.00000	.60000-01	739.00	.4747	.3469	.4268	.9652	.1553-01	.1910-01	2.143	13.99	605.3
143	.00000	.70000-01	740.00	.4097	.3027	.3781	.9618	.1355-01	.1692-01	1.927	12.69	601.0
143	.00000	.80000-01	741.00	.3758	.2790	.3548	.9585	.1248-01	.1588-01	1.801	12.76	599.0
143	.00000	.10000+00	742.00	.3494	.2651	.3449	.9521	.1186-01	.1543-01	1.826	11.94	589.4
143	.00000	.12500	743.00	.2523	.1894	.2619	.9445	.8478-02	.1172-01	1.265	8.980	594.1
143	.00000	.15000	744.00	.2147	.1641	.2327	.9375	.7345-02	.1041-01	1.159	7.904	585.5
143	.00000	.17500	745.00	.1454	.1137	.1626	.9311	.5087-02	.7277-02	.8660	6.426	573.0
143	.00000	.20000	746.00	.1094	.8680-01	.1254	.9254	.3884-02	.5614-02	.6990	4.958	563.4
143	.00000	.21500	747.00	.9860-01	.7850-01	.1147	.9224	.3514-02	.5133-02	.6420	4.421	560.5

DATE 03 JUN 76 AEDC V41A-A4A (1H-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F31)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
143	.00000	.23000	748.00	.7980-01	.6360-01	.9420-01	.9198	.2847-02	.4215-02	.5230	3.842	559.6
143	.00000	.24000	749.00	.6820-01	.5440-01	.8120-01	.9182	.2436-02	.3636-02	.4490	3.366	559.0
143	.00000	.25000	750.00	.3850-01	.3100-01	.4560-01	.9182	.1386-02	.2040-02	.2630	2.121	553.5
143	.00000	.30000	751.00	.7600-01	.6100-01	.9000-01	.9182	.2732-02	.4027-02	.5160	3.377	554.2
143	.00000	.35000	752.00	.7550-01	.6090-01	.8910-01	.9182	.2727-02	.3986-02	.5250	3.312	550.8
143	.00000	.40000	753.00	.6880-01	.5540-01	.8130-01	.9182	.2481-02	.3640-02	.4740	3.039	552.3
143	.00000	.50000	754.00	.6850-01	.5460-01	.8210-01	.9182	.2442-02	.3676-02	.4420	2.871	562.2
143	.00000	.60000	755.00	.7510-01	.5970-01	.9000-01	.9182	.2670-02	.4027-02	.4820	3.065	562.8
143	.00000	.70000	756.00	.6560-01	.5170-01	.7900-01	.9182	.2316-02	.3536-02	.4080	2.666	567.1
143	.00000	.80000	757.00	.7840-01	.6230-01	.9380-01	.9182	.2789-02	.4200-02	.5050	3.140	562.2
143	.00000	.90000	758.00	.4010-01	.3200-01	.4780-01	.9182	.1433-02	.2141-02	.2630	1.693	559.5
143	.00000	.90000	759.00	.7450-01	.5960-01	.8780-01	.9196	.2669-02	.3928-02	.4980	3.687	556.7
143	55.000	.22000	760.00	.3180-01	.2570-01	.3790-01	.9166	.1148-02	.1698-02	.2200	1.717	551.9
143	55.000	.25000	761.00	.4480-01	.3580-01	.5380-01	.9166	.1604-02	.2408-02	.2970	2.201	557.8
143	55.000	.27000	762.00	.6930-01	.5580-01	.8270-01	.9166	.2497-02	.3699-02	.4760	2.857	552.5
143	55.000	.30000	763.00	.8760-01	.7030-01	1047	9166	.3147-02	.4665-02	.5940	3.502	554.5
143	55.000	.32000	764.00	.1018	.8130-01	.1226	9166	.3637-02	.5485-02	.6690	3.944	559.4
143	55.000	.34000	765.00	.1056	.8450-01	.1267	.9166	.3783-02	.5670-02	.7040	4.213	557.1
143	55.000	.36000	766.00	.1061	.8460-01	.1277	.9166	.3787-02	.5714-02	.6960	4.203	559.5
143	55.000	.38000	767.00	.1272	.1005	.1546	.9166	.4497-02	.6918-02	.7970	4.929	566.2
143	55.000	.40000	768.00	.5790-01	.4650-01	.6900-01	.9167	.2083-02	.3088-02	.3960	2.935	553.2
143	67.500	.23000	769.00	.2900-01	.2340-01	.3460-01	.9155	.1049-02	.1551-02	.2040	1.582	549.2
143	67.500	.25000	770.00	.4190-01	.3380-01	.5050-01	.9155	.1504-02	.2250-02	.2830	2.052	555.5
143	67.500	.27000	771.00	.4230-01	.3410-01	.5070-01	.9155	.1526-02	.2267-02	.2930	1.813	551.1
143	67.500	.29000	772.00	.9090-01	.7280-01	.1097	.9155	.3258-02	.4909-02	.6080	3.700	556.6
143	67.500	.30000	773.00	.1097	.8740-01	.1331	.9155	.3911-02	.5957-02	.7150	4.305	560.5
143	67.500	.31000	774.00	.1175	.9350-01	.1428	.9155	.4185-02	.6391-02	.7610	4.544	561.4
143	67.500	.32000	775.00	.1244	.9880-01	.1514	.9155	.4422-02	.6776-02	.7990	4.779	562.6
143	67.500	.32500	776.00	.1424	.1128	.1739	.9155	.5048-02	.7784-02	.9020	5.402	564.7
143	67.500	.33000	777.00	.1639	.1290	.2016	.9155	.5772-02	.9023-02	1.006	6.012	569.1
143	67.500	.33500	778.00	.1720	.1347	.2125	.9155	.6030-02	.9510-02	1.035	6.177	571.7
143	67.500	.34000	779.00	.1869	.1452	.2330	.9155	.6500-02	.1043-01	1.084	6.471	576.6
143	67.500	.34500	780.00	.2063	.1595	.2584	.9155	.7144-02	.1157-01	1.173	7.017	579.1
143	67.500	.35000	781.00	.2320	.1768	.2856	.9155	.7913-02	.1323-01	1.236	7.386	587.1
143	67.500	.35500	782.00	.2047	.1565	.2596	.9155	.7010-02	.1162-01	1.109	6.634	585.0
143	67.500	.36000	783.00	.1901	.1468	.2385	.9155	.6570-02	.1067-01	1.073	6.416	580.0
143	67.500	.36500	784.00	.1777	.1381	.2214	.9155	.6179-02	.9910-02	1.031	6.205	576.5
143	67.500	.37000	785.00	.1631	.1272	.2025	.9155	.5695-02	.9064-02	.9620	5.845	574.4
143	67.500	.37500	786.00	.1601	.1250	.1985	.9155	.5593-02	.8885-02	.9480	5.778	573.8
143	67.500	.38000	787.00	.1501	.1175	.1855	.9155	.5258-02	.8303-02	.9000	5.508	572.1
143	67.500	.38000	788.00	.1314	.1036	.1612	.9155	.4634-02	.7214-02	.8140	5.032	567.7
144	67.500	.40000	789.00	.7820-01	.6220-01	.9510-01	.9155	.2783-02	.4257-02	.5050	3.212	561.9
144	67.500	.50000	789.00	.7830-01	.6220-01	.9540-01	.9155	.2782-02	.4268-02	.5020	3.265	563.0
144	67.500	.60000	790.00									

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F31)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TH DEG. R
144	67.500	.70000	791.00	.6910-01	.5420-01	.8530-01	.9155	.2426-02	.3816-02	.4180	2.919	570.9
144	67.500	.80000	792.00	.5680-01	.4490-01	.6950-01	.9155	.2009-02	.3109-02	.3570	2.220	565.8
144	67.500	.90000	793.00	.1410-01	.1110-01	.1720-01	.9155	.4964-03	.7713-03	.8700-01	.5580	567.1
144	78.000	.27000	794.00	.3370-01	.2720-01	.4070-01	.9145	.1215-02	.1822-02	.2320	1.648	552.6
144	78.000	.29000	795.00	.9280-01	.7420-01	.1128	.9145	.3320-02	.5048-02	.6160	3.776	557.7
144	78.000	.30000	796.00	.1641	.1289	.2035	.9145	.5770-02	.9110-02	.9970	5.978	568.4
144	78.000	.31000	797.00	.2235	.1714	.2849	.9145	.7672-02	.1275-01	1.220	7.264	582.2
144	78.000	.32000	798.00	.2525	.1882	.3332	.9145	.8425-02	.1491-01	1.226	7.217	595.6
144	78.000	.32500	799.00	.2598	.1917	.3473	.9145	.8581-02	.1554-01	1.214	7.145	599.8
144	78.000	.33000	800.00	.2667	.1955	.3597	.9145	.8749-02	.1610-01	1.214	7.139	602.4
144	78.000	.33500	801.00	.3018	.2198	.4102	.9145	.9838-02	.1836-01	1.343	7.886	604.7
144	78.000	.34000	802.00	.3464	.2540	.4667	.9145	.1137-01	.2089-01	1.580	9.293	602.2
144	78.000	.34500	803.00	.3216	.2369	.4309	.9145	.1060-01	.1928-01	1.431	8.802	600.5
144	78.000	.35000	804.00	.2936	.2196	.3860	.9145	.9826-02	.1728-01	1.443	8.545	594.3
144	78.000	.35500	805.00	.2673	.2038	.3430	.9145	.9123-02	.1535-01	1.424	8.469	585.1
144	78.000	.36000	806.00	.2397	.1837	.3059	.9145	.8221-02	.1369-01	1.303	7.782	582.6
144	78.000	.36500	807.00	.2022	.1552	.2574	.9145	.6947-02	.1152-01	1.108	6.640	581.6
144	78.000	.37000	808.00	.1813	.1400	.2291	.9145	.6268-02	.1025-01	1.021	6.145	578.2
144	78.000	.37500	809.00	.1612	.1253	.2024	.9145	.5606-02	.9058-02	.9320	5.614	575.0
144	78.000	.38000	810.00	.1467	.1147	.1830	.9145	.5133-02	.8190-02	.8710	5.288	571.5
144	78.000	.39000	811.00	.1169	.9200-01	.1446	.9145	.4117-02	.6473-02	.7160	4.370	567.2
144	78.000	.40000	812.00	.1005	.7930-01	.1240	.9145	.3548-02	.5550-02	.6230	3.804	565.6
122	90.000	.40000-01	985.00	.3912	.3035	.3714	.9592	.1358-01	.1662-01	2.249	14.41	576.8
122	90.000	.50000-01	986.00	.4133	.3206	.4000	.9558	.1435-01	.1790-01	2.373	15.12	577.0
122	90.000	.60000-01	987.00	.3528	.2680	.3475	.9524	.1199-01	.1555-01	1.852	11.94	588.0
122	90.000	.70000-01	988.00	.3344	.2557	.3363	.9491	.1144-01	.1505-01	1.804	11.90	584.7
122	90.000	.80000-01	989.00	.2909	.2239	.2982	.9459	.1002-01	.1334-01	1.613	11.23	581.4
122	90.000	.10000+00	990.00	.2487	.1950	.2633	.9400	.8725-02	.1178-01	1.498	9.658	570.7
122	90.000	.15000	991.00	.1391	.1096	.1585	.9272	.4907-02	.7093-02	.8610	6.258	566.9
144	90.000	.20000	813.00	.4090-01	.3310-01	.4900-01	.9144	.1483-02	.2195-02	.2900	2.111	545.5
144	90.000	.24000	814.00	.3630-01	.2940-01	.4370-01	.9136	.1316-02	.1958-02	.2570	2.079	546.0
144	90.000	.27000	816.00	.2400-01	.1940-01	.2900-01	.9136	.8700-03	.1300-02	.1680	1.197	547.5
144	90.000	.29000	817.00	.1760	.1358	.2242	.9136	.6079-02	.1004-01	.9870	6.037	578.8
144	90.000	.30000	818.00	.2818	.2049	.3877	.9136	.9171-02	.1735-01	1.245	7.393	605.4
144	90.000	.31000	819.00	.3089	.2262	.4208	.9136	.1012-01	.1883-01	1.402	8.265	602.7
144	90.000	.32000	820.00	.2929	.2159	.3955	.9136	.9662-02	.1770-01	1.362	8.017	600.2
144	90.000	.32500	821.00	.2983	.2213	.3993	.9136	.9904-02	.1787-01	1.422	8.362	597.6
144	90.000	.33000	822.00	.3257	.2417	.4358	.9136	.1082-01	.1950-01	1.556	9.170	597.4
144	90.000	.33500	823.00	.4885	.3571	.6668	.9136	.1598-01	.2984-01	2.203	12.99	603.3
144	90.000	.34000	824.00	.4330	.3135	.5992	.9136	.1403-01	.2682-01	1.884	11.02	606.9
144	90.000	.34500	825.00	.4305	.3064	.6103	.9136	.1371-01	.2731-01	1.763	10.31	612.6
144	90.000	.35000	826.00	.5563	.3697	.8792	.9136	.1655-01	.3935-01	1.828	10.60	630.7
144	90.000	.36000	828.00	.3964	.2849	.5541	.9136	.1275-01	.2480-01	1.681	9.822	609.4

IH41(AEDC V41A-A4A) O T S (CONFIG 1) T.NK DATA (RV7F31)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
144	90.000	.36500	829.00	.3116	.2387	.4006	.9136	.1068-01	.1793-01	1.692	10.05	582.8
144	90.000	.37000	830.00	.1492	.1172	.1861	.9136	.5245-02	.8329-02	.9070	5.438	588.3
144	90.000	.37500	831.00	.1010	.8030-01	.1245	.9136	.3593-02	.5570-02	.6480	3.923	560.8
144	90.000	.38000	832.00	.8090-01	.6480-01	.9870-01	.9136	.2899-02	.4417-02	.5400	3.279	554.9
144	90.000	.39000	833.00	.7280-01	.5860-01	.8820-01	.9136	.2623-02	.3949-02	.5000	3.077	550.5
144	90.000	.40000	834.00	.6190-01	.4990-01	.7520-01	.9136	.2231-02	.3365-02	.4240	2.614	551.2
144	90.000	.50000	835.00	.5770-01	.4630-01	.7040-01	.9136	.2072-02	.3149-02	.3880	2.442	554.0
144	90.000	.60000	836.00	.5630-01	.4540-01	.6830-01	.9136	.2030-02	.3058-02	.3870	2.570	550.8
144	90.000	.80000	838.00	.4530-01	.3620-01	.5550-01	.9136	.1618-02	.2482-02	.2970	1.839	557.3
144	90.000	.90000	839.00	.4910-01	.3910-01	.6040-01	.9136	.1750-02	.2704-02	.3180	2.017	559.7
144	112.50	.23000	840.00	.3060-01	.2500-01	.3680-01	.9130	.1117-02	.1645-02	.2240	1.813	540.5
144	112.50	.25000	841.00	.2110-01	.1720-01	.2530-01	.9130	.7709-03	.1133-02	.1560	1.210	539.4
144	112.50	.30000	843.00	.6030-01	.4870-01	.7320-01	.9130	.2180-02	.3275-02	.4200	2.499	548.3
144	112.50	.33000	844.00	.1311	.1048	.1610	.9130	.4692-02	.7205-02	.8680	5.207	556.3
144	112.50	.35000	845.00	.1231	.9880-01	.1506	.9130	.4422-02	.6739-02	.8290	5.064	553.7
144	112.50	.37000	846.00	.6430-01	.5210-01	.7780-01	.9130	.2331-02	.3480-02	.4550	2.807	545.9
144	112.50	.40000	847.00	.2050-01	.1680-01	.2450-01	.9130	.7506-03	.1097-02	.1530	.9610	536.8
144	112.50	.45000	848.00	.1570-01	.1290-01	.1890-01	.9130	.5764-03	.8439-03	.1170	.7400	537.7
144	112.50	.50000	849.00	.2040-01	.1660-01	.2440-01	.9130	.7438-03	.1094-02	.1500	.9670	539.8
144	112.50	.55000	850.00	.2270-01	.1850-01	.2730-01	.9130	.8293-03	.1220-02	.1670	1.119	540.0
144	112.50	.60000	851.00	.2530-01	.2070-01	.3040-01	.9130	.9262-03	.1360-02	.1870	1.259	539.1
144	112.50	.65000	852.00	.2580-01	.2100-01	.3100-01	.9130	.9405-03	.1387-02	.1880	1.286	540.9
144	112.50	.70000	853.00	.4470-01	.3630-01	.5410-01	.9130	.1623-02	.2420-02	.3180	2.233	545.3
144	112.50	.75000	854.00	.5320-01	.4320-01	.6420-01	.9130	.1935-02	.2872-02	.3820	2.485	543.5
144	112.50	.90000	856.00	.6170-01	.4970-01	.7510-01	.9130	.2223-02	.3363-02	.4230	2.739	550.9
144	125.40	.84000	857.00	.7180-01	.5810-01	.8700-01	.9130	.2602-02	.3892-02	.5060	3.128	546.7
144	125.40	.85000	858.00	.7330-01	.5940-01	.8870-01	.9130	.2657-02	.3968-02	.5180	3.223	546.1
144	125.40	.86000	859.00	.6700-01	.5430-01	.8110-01	.9130	.2430-02	.3631-02	.4740	2.969	546.3
144	125.40	.87000	860.00	.6410-01	.5190-01	.7750-01	.9130	.2322-02	.3471-02	.4520	2.843	546.4
144	125.40	.88000	861.00	.7080-01	.5730-01	.8580-01	.9130	.2564-02	.3838-02	.4980	3.132	546.8
144	125.40	.89000	862.00	.7100-01	.5730-01	.8630-01	.9130	.2563-02	.3863-02	.4910	3.102	549.5
144	125.40	.90000	863.00	.7440-01	.6000-01	.9050-01	.9130	.2687-02	.4049-02	.5150	3.271	549.5
144	125.40	.91000	864.00	.5350-01	.4310-01	.6500-01	.9130	.1929-02	.2909-02	.3690	2.680	549.8
144	125.40	.92600	865.00	.8780-01	.6960-01	.1090	.9130	.3114-02	.4879-02	.5550	3.989	563.0
144	129.30	.80000	866.00	.2640-01	.2140-01	.3190-01	.9130	.9586-03	.1427-02	.1880	1.185	544.6
144	129.30	.81000	867.00	.2910-01	.2360-01	.3520-01	.9130	.1056-02	.1576-02	.2060	1.289	545.9
144	129.30	.82000	868.00	.3210-01	.2600-01	.3880-01	.9130	.1162-02	.1737-02	.2260	1.414	546.4
144	129.30	.83000	869.00	.4200-01	.3330-01	.5100-01	.9130	.1518-02	.2284-02	.2920	1.827	548.9
144	135.00	.40000-01	870.00	.2970	.2341	.3028	.9465	.1048-01	.1355-01	1.831	11.66	566.4
144	135.00	.50000-01	871.00	.3082	.2433	.3200	.9431	.1089-01	.1432-01	1.915	12.13	565.3
144	135.00	.60000-01	872.00	.2496	.1949	.2646	.9399	.8723-02	.1184-01	1.475	9.672	572.1
144	135.00	.70000-01	873.00	.2256	.1767	.2432	.9369	.7909-02	.1088-01	1.354	9.102	570.0
144	135.00	.10000+00	875.00	.1607	.1285	.1798	.9288	.5749-02	.8049-02	1.063	6.941	556.3

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F31)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
144	135.00	.15000	876.00	.8080-01	.6520-01	.9510-01	.9186	.2920-02	.4254-02	.5620	4.105	548.9
144	135.00	.20000	877.00	.3310-01	.2700-01	.3960-01	.9133	.1208-02	.1772-02	.2440	1.652	539.2
144	135.00	.35000	878.00	.2850-01	.2330-01	.3420-01	.9130	.1045-02	.1529-02	.2120	1.326	537.8
144	135.00	.40000	879.00	.1550-01	.1270-01	.1850-01	.9130	.5666-03	.8294-03	.1150	.7340	537.6
144	135.00	.50000	880.00	.1410-01	.1150-01	.1690-01	.9130	.5130-03	.7570-03	.1030	.7070	541.1
144	135.00	.55000	881.00	.8100-02	.6600-02	.9700-02	.9130	.2942-03	.4343-03	.5900-01	.3930	541.4
144	135.00	.60000	882.00	.2160-01	.1750-01	.2610-01	.9130	.7848-03	.1167-02	.1550	1.040	544.3
144	135.00	.65000	883.00	.4250-01	.3440-01	.5140-01	.9130	.1541-02	.2301-02	.3010	2.053	546.0
144	135.00	.70000	884.00	.4310-01	.3490-01	.5230-01	.9130	.1561-02	.2343-02	.3010	2.142	548.0
144	135.00	.75000	885.00	.3920-01	.3170-01	.4760-01	.9130	.1418-02	.2131-02	.2730	1.722	548.4
144	135.00	.80000	886.00	.3600-01	.2910-01	.4350-01	.9130	.1303-02	.1948-02	.2540	1.595	546.4
144	135.00	.84000	887.00	.6130-01	.4920-01	.7480-01	.9130	.2203-02	.3349-02	.4150	2.603	552.7
122	135.00	.85000	888.00	.6770-01	.5400-01	.8340-01	.9130	17-02	.3732-02	.4430	2.791	559.1
122	135.00	.86000	889.00	.6840-01	.5490-01	.8370-01	.9130	.2456-02	.3747-02	.4600	2.898	554.9
122	135.00	.87000	890.00	.6820-01	.5480-01	.8330-01	.9130	.2453-02	.3730-02	.4630	2.933	553.7
122	135.00	.88000	891.00	.6480-01	.5200-01	.7920-01	.9130	.2327-02	.3544-02	.4380	2.787	554.3
122	135.00	.89000	892.00	.6140-01	.4920-01	.7520-01	.9130	.2204-02	.3367-02	.4120	2.668	555.5
122	135.00	.90000	893.00	.5240-01	.4180-01	.6440-01	.9130	.1872-02	.2881-02	.3450	2.259	558.0
122	135.00	.91000	894.00	.3710-01	.2960-01	.4560-01	.9130	.1325-02	.2040-02	.2440	1.771	558.1
122	135.00	.92600	895.00	.9270-01	.7320-01	.1155	.9130	.3274-02	.5168-02	.5770	4.154	566.2
122	135.00	.95000	896.00	.6490-01	.5230-01	.7890-01	.9130	.2342-02	.3533-02	.4490	3.236	550.8
122	142.30	.42000	897.00	.3590-01	.2920-01	.4330-01	.9130	.1307-02	.1938-02	.2590	1.671	543.9
122	142.30	.43500	898.00	.3150-01	.2560-01	.3780-01	.9130	.1147-02	.1693-02	.2300	1.438	542.3
122	142.30	.45000	899.00	.2600-01	.2120-01	.3140-01	.9130	.9481-03	.1403-02	.1890	1.238	543.2
122	142.30	.50000	900.00	.1530-01	.1240-01	.1850-01	.9130	.5566-03	.8266-03	.1100	.7340	544.6
122	142.30	.60000	901.00	.3650-01	.2960-01	.4410-01	.9130	.1324-02	.1972-02	.2600	1.731	545.8
122	142.30	.70000	902.00	.4690-01	.3770-01	.5710-01	.9130	.1687-02	.2556-02	.3210	2.181	552.4
122	142.30	.80000	903.00	.4420-01	.3560-01	.5390-01	.9130	.1594-02	.2411-02	.3040	1.926	551.8
122	142.30	.87000	904.00	.6460-01	.5150-01	.7970-01	.9130	.2304-02	.3565-02	.4210	2.642	559.8
122	154.98	.42000	905.00	.5480-01	.4440-01	.6630-01	.9130	.1986-02	.2967-02	.3880	2.502	547.0
122	154.98	.43500	906.00	.5200-01	.4210-01	.6290-01	.9130	.1886-02	.2814-02	.3690	2.397	546.5
122	154.98	.45000	907.00	.4420-01	.3580-01	.5340-01	.9130	.1604-02	.2391-02	.3150	2.054	546.2
122	154.98	.50000	908.00	.2170-01	.1760-01	.2620-01	.9130	.7858-03	.1173-02	.1540	1.099	546.8
122	154.98	.93500	913.00	.3406	.2607	.4406	.9130	.1167-01	.1972-01	1.846	13.17	584.2
122	154.98	.94500	914.00	.1150	.8996-01	.1450	.9130	.4023-02	.6488-02	.6640	4.863	572.4
122	157.50	.80000-01	919.00	.1714	.1360	.1913	.9300	.6085-02	.8562-02	1.093	7.399	562.8
122	157.50	.20000	922.00	.2130-01	.1740-01	.2560-01	.9130	.7802-03	.1146-02	.1580	1.055	540.0
122	157.50	.42000	923.00	.5710-01	.4630-01	.6910-01	.9130	.2072-02	.3091-02	.4060	2.648	546.5
122	157.50	.43500	924.00	.6150-01	.4970-01	.7450-01	.9130	.2224-02	.3336-02	.4310	2.818	548.6
122	157.50	.45000	925.00	.4770-01	.3840-01	.5800-01	.9130	.1720-02	.2596-02	.3300	2.171	550.9
122	157.50	.85000	926.00	.3350-01	.2680-01	.4110-01	.9130	.1201-02	.1837-02	.2240	1.441	556.0
122	157.50	.86000	927.00	.3920-01	.3130-01	.4820-01	.9130	.1401-02	.2155-02	.2590	1.669	557.8
122	157.50	.87000	928.00	.4850-01	.3860-01	.5970-01	.9130	.1729-02	.2672-02	.3160	2.045	559.4

(RV7F31)

:H41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
122	157.50	.88000	929.00	.8370-01	.6630-01	.1038	.9130	.2968-02	.4644-02	.5310	3.448	563.4
122	157.50	.89000	930.00	.9190-01	.7250-01	.1148	.9130	.3242-02	.5136-02	.5680	3.701	567.2
122	157.50	.90000	931.00	.7330-01	.5770-01	.9160-01	.9130	.2581-02	.4101-02	.4500	3.001	568.1
122	157.50	.91000	932.00	.4340-01	.3410-01	.5420-01	.9130	.1527-02	.2425-02	.2660	1.930	567.9
122	157.50	.92600	933.00	.1241	.9630-01	.1579	.9130	.4311-02	.7065-02	.7140	5.133	576.7
122	163.12	.41500	934.00	.6040-01	.4880-01	.7320-01	.9130	.2186-02	.3278-02	.4240	2.748	548.4
122	163.12	.42000	935.00	.7000-01	.5640-01	.8530-01	.9130	.2524-02	.3815-02	.4820	3.144	551.6
122	163.12	.43000	937.00	.7560-01	.6050-01	.9280-01	.9130	.2706-02	.4154-02	.5020	3.274	557.1
122	163.12	.44000	938.00	.7660-01	.6140-01	.9360-01	.9130	.2749-02	.4190-02	.5160	3.364	554.6
122	163.12	.44500	939.00	.6430-01	.5170-01	.7860-01	.9130	.2313-02	.3516-02	.4370	2.889	553.7
122	163.12	.45000	940.00	.5590-01	.4500-01	.6820-01	.9130	.2013-02	.3054-02	.3810	2.524	553.0
122	163.12	.50000	941.00	.5800-01	.4660-01	.7080-01	.9130	.2088-02	.3170-02	.3950	2.670	553.2
122	163.12	.60000	942.00	.7130-01	.5760-01	.8660-01	.9130	.2576-02	.3876-02	.4960	3.193	549.9
122	163.12	.70000	943.00	.4590-01	.3710-01	.5580-01	.9130	.1661-02	.2495-02	.3210	2.202	549.1
122	163.12	.80000	944.00	.3390-01	.2730-01	.4140-01	.9130	.1220-02	.1852-02	.2310	1.500	553.3
122	168.00	.35000	945.00	.3290-01	.2680-01	.3960-01	.9130	.1199-02	.1773-02	.2390	1.520	542.8
122	168.00	.36000	946.00	.3720-01	.3030-01	.4480-01	.9130	.1356-02	.2006-02	.2710	1.723	542.9
122	168.00	.37000	947.00	.4580-01	.3720-01	.5520-01	.9130	.1667-02	.2472-02	.3300	2.108	544.2
122	168.00	.37500	948.00	.5200-01	.4230-01	.6280-01	.9130	.1891-02	.2810-02	.3730	2.383	544.9
122	168.00	.38500	950.00	.5020-01	.4080-01	.6050-01	.9130	.1826-02	.2706-02	.3630	2.343	543.7
122	168.00	.39000	951.00	.5850-01	.4740-01	.7070-01	.9130	.2122-02	.3165-02	.4160	2.700	546.3
122	168.00	.39500	952.00	.6100-01	.4930-01	.7390-01	.9130	.2205-02	.3308-02	.4270	2.728	548.7
122	168.00	.40000	953.00	.6460-01	.5210-01	.7860-01	.9130	.2330-02	.3520-02	.4450	2.890	551.3
122	168.00	.40500	954.00	.7010-01	.5630-01	.8560-01	.9130	.2519-02	.3830-02	.4750	3.089	553.8
122	168.00	.41000	955.00	.7840-01	.6280-01	.9620-01	.9130	.2809-02	.4306-02	.5220	3.388	556.6
122	168.00	.41500	956.00	.8400-01	.6690-01	.1036	.9130	.2993-02	.4638-02	.5450	3.542	560.3
122	168.00	.42000	957.00	.1024	.8150-01	.1263	.9130	.3647-02	.5654-02	.6640	4.324	560.5
122	168.00	.42500	958.00	.7720-01	.6200-01	.9440-01	.9130	.2775-02	.4222-02	.5230	3.420	554.0
122	168.00	.43000	959.00	.1170	.9190-01	.1465	.9130	.4113-02	.6558-02	.7120	4.639	569.2
122	168.00	.44000	960.00	.1009	.8020-01	.1247	.9130	.3588-02	.5583-02	.6490	4.225	561.6
122	168.00	.44500	961 00	.1004	.8040-01	.1232	.9130	.3596-02	.5512-02	.6680	4.364	556.6
122	168.00	.45000	962.00	.8890-01	.7110-01	.1090	.9130	.3182-02	.4879-02	.5910	3.881	556.7
122	168.00	.45500	963.00	.7690-01	.6160-01	.9430-01	.9130	.2758-02	.4219-02	.5140	3.379	555.9
122	168.00	.46000	964.00	.7590-01	.6080-01	.9300-01	.9130	.2723-02	.4163-02	.5080	3.361	555.7
122	168.00	.47000	965.00	.6600-01	.5300-01	.8060-01	.9130	.2370-02	.3606-02	.4460	2.963	554.0
122	168.00	.48000	966.00	.5440-01	.4380-01	.6630-01	.9130	.1958-02	.2967-02	.3720	2.493	552.4
122	168.00	.49000	967.00	.5390-01	.4350-01	.6540-01	.9130	.1946-02	.2927-02	.3750	2.516	549.7
122	168.00	.85000	968.00	.3890-01	.3130-01	.4760-01	.9130	.1399-02	.2131-02	.2630	1.699	554.4
122	168.00	.86000	969.00	.3630-01	.2910-01	.4450-01	.9130	.1300-02	.1993-02	.2420	1.564	556.6
122	168.00	.87000	970.00	.6960-01	.5540-01	.8600-01	.9130	.2479-02	.3848-02	.4500	2.918	560.8
122	168.00	.88000	971.00	.1249	.9870-01	.1554	.9130	.4418-02	.6952-02	.7830	5.076	565.2
122	168.00	.89000	972.00	.1349	.1061	.1688	.9130	.4746-02	.7556-02	.8240	5.415	568.7
122	168.00	.90000	973.00	.9560-01	.7500-01	.1199	.9130	.3358-02	.5364-02	.5800	3.903	569.6

(IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F31)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
122	168.00	.9'000	974.00	.4880-01	.3830-01	.6110-01	.9130	.1716-02	.2734-02	.2970	2.146	569.0
122	168.00	.92600	975.00	.1265	.9750-01	.1623	.9130	.4363-02	.7264-02	.7060	5.029	580.6
122	168.00	.95000	976.00	.8750-01	.7070-01	.1063	.9130	.3162-02	.4757-02	.6090	4.379	549.8
122	180.00	.20000-01	982.00	.7550-01	.6130-01	.7750-01	.9443	.2743-02	.3469-02	.5420	3.774	544.7
122	180.00	.25000-01	983.00	.1072	.8670-01	.1112	.9424	.3879-02	.4978-02	.7520	5.193	548.5
122	180.00	.30000-01	984.00	.1635	.1309	.1713	.9408	.5857-02	.7667-02	1.090	7.451	556.2
142	180.00	.40000-01	600.00	.2127	.1699	.2248	.9394	.7600-02	.1006-01	1.398	8.944	557.3
142	180.00	.50000-01	601.00	.2259	.1806	.2427	.9362	.8078-02	.1086-01	1.493	9.578	556.5
142	180.00	.60000-01	602.00	.1977	.1565	.2169	.9332	.7003-02	.9706-02	1.247	8.234	563.3
142	180.00	.70000-01	603.00	.1814	.1439	.2020	.9303	.6439-02	.9039-02	1.156	7.830	561.8
142	180.00	.80000-01	604.00	.1646	.1313	.1856	.9277	.5872-02	.8303-02	1.075	6.951	558.3
142	180.00	.10000+00	605.00	.1091	.8790-01	.1254	.9231	.3932-02	.5610-02	.7500	5.372	550.6
142	180.00	.15000	606.00	.4400-01	.3590-01	.5240-01	.9150	.1604-02	.2345-02	.3200	2.329	542.0
142	180.00	.20000	607.00	.1740-01	.1430-01	.2080-01	9130	.6378-03	.9308-03	.1310	.8570	536.4
142	180.00	.21000	608.00	.1140-01	.9300-02	.1360-.1	.9130	.4178-03	.6092-03	.8600-01	.5960	536.0
142	180.00	.22000	609.00	.9400-02	.7700-02	.1130-01	.9130	.3446-03	.5034-03	.7000-01	.5270	536.9
142	180.00	.35000	611.00	.3810-01	.3100-01	.4590-01	.9130	.1386-02	.2053-02	.2750	1.836	542.8
142	180.00	.36000	612.00	.4930-01	.4000-01	.5960-01	.9130	.1792-02	.2664-02	.3530	2.373	544.4
142	180.00	.37000	613.00	.7480-01	.6040-01	.9080-01	.9130	.2702-02	.4061-02	.5200	3.495	548.7
142	180.00	.37500	614.00	.9700-01	.7790-01	.1186	.9130	.3484-02	.5305-02	.6550	4.385	553.4
142	180.00	.38000	615.00	.1165	.9290-01	.1434	.9130	.4155-02	.6416-02	.7610	5.084	558.2
142	180.00	.39000	617.00	.1784	.1408	.2223	.9130	.6301-02	.9945-02	1.109	7.362	565.3
142	180.00	.39500	618.00	.1972	.1550	.2468	.9130	.6934-02	.1104-01	1.202	8.017	568.0
142	180.00	.40000	619.00	.2045	.1611	.2556	.9130	.7206-02	.1144-01	1.256	8.334	566.9
142	180.00	.40500	620.00	.2020	.1591	.2524	.9130	.7119-02	.1129-01	1.243	8.270	566.7
142	180.00	.41000	621.00	.1767	.1395	.2201	.9130	.6239-02	.9847-02	1.098	7.312	565.3
142	180.00	.41500	622.00	.1764	.1389	.2206	.9130	.6213-02	.9868-02	1.082	7.176	567.2
142	180.00	.42500	624.00	.1697	.1329	.2135	.9130	.5946-02	.9553-02	1.016	6.725	570.5
142	180.00	.43000	625.00	.1874	.1467	.2359	.9130	.6562-02	.1055-01	1.119	7.430	570.8
142	180.00	.44000	626.00	.1596	.1260	.1990	.9130	.5636-02	.8902-02	.9910	6.597	565.5
142	180.00	.44500	627.00	.1267	.1008	.1564	.9130	.4510-02	.6999-02	.8180	5.513	559.9
142	180.00	.45000	628.00	.9370-01	.7510-01	.1147	.9130	.3358-02	.5131-02	.6270	4.235	554.6
142	180.00	.45500	629.00	.7690-01	.6190-01	.9360-01	.9130	.2769-02	.4187-02	.5270	3.623	550.9
142	180.00	.46000	630.00	.6360-01	.5130-01	.7720-01	.9130	.2296-02	.3452-02	.4420	2.970	548.7
142	180.00	.47000	631.00	.5510-01	.4450-01	.6700-01	.9130	.1991-02	.2996-02	.3830	2.570	549.0
142	180.00	.48000	632.00	.5120-01	.4110-01	.6240-01	.9130	.1839-02	.2793-02	.3470	2.343	552.4
142	180.00	.49000	633.00	.7590-01	.6090-01	.9270-01	.9130	.2726-02	.4149-02	.5130	3.486	553.3
142	180.00	.50000	634.00	.8840-01	.7100-01	.1081	.9130	.3175-02	.4836-02	.5960	4.158	553.5
142	180.00	.55000	635.00	.6130-01	.4960-01	.7440-01	.9130	.2219-02	.3327-02	.4300	2.851	547.7
142	180.00	.60000	636.00	.6230-01	.5060-01	.7510-01	.9130	.2265-02	.3359-02	.4480	2.897	543.3
142	180.00	.65000	637.00	.4900-01	.3990-01	.5900-01	.9130	.1784-02	.2641-02	.3550	2.299	542.5
142	180.00	.70000	638.00	.4100-01	.3330-01	.4940-01	.9130	.1489-02	.2212-02	.2940	2.015	543.9
142	180.00	.75000	639.00	.3630-01	.2940-01	.4380-01	.9130	.1316-02	.1962-02	.2580	1.665	545.3

(RV7F31)

(IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
142	180.00	.80000	640.00	.3840-01	.3110-01	.4650-01	.9130	.1390-02	.2079-02	.2700	1.694	546.8
142	180.00	.85000	641.00	.3580-01	.2890-01	.4350-01	.9130	.1291-02	.1946-02	.2480	1.583	549.5
142	180.00	.86000	642.00	.4830-01	.3880-01	.5890-01	.9130	.1736-02	.2635-02	.3280	2.100	552.2
142	180.00	.87000	643.00	.8850-01	.7070-01	.1088	.9130	.3161-02	.4868-02	.5810	3.729	557.4
142	180.00	.88000	644.00	.1195	.9490-01	.1481	.9130	.4244-02	.6624-02	.7620	4.918	561.8
142	180.00	.89000	645.00	.1253	.9920-01	.1556	.9130	.4437-02	.6962-02	.7890	5.148	563.5
142	180.00	.90000	646.00	.8240-01	.6520-01	.1023	.9130	.2918-02	.4579-02	.5190	3.457	563.5
142	180.00	.92600	648.00	.4250-01	.3270-01	.5460-01	.9130	.1464-02	.2441-02	.2360	1.692	580.2
142	180.00	.95000	649.00	.3770-01	.3070 01	.4530-01	.9130	.1374-02	.2026-02	.2750	1.993	541.0
142	191.25	.35000	650.00	.3500-01	.2850-01	.4230-01	.9130	.1274-02	.1690-02	.2520	1.695	543.6
142	191.25	.36000	651.00	.4390-01	.3570-01	.5310-01	.9130	.1595-02	.2375-02	.3130	2.116	544.8
142	191.25	.37000	652.00	.6021 01	.4860-01	.7310-01	.9130	.2176-02	.3271-02	.4190	2.814	548.7
142	191.25	.37500	653.00	.7720-01	.6210-01	.9400-01	.9130	.2778-02	.4207-02	.5280	3.550	551.3
142	191.25	.38000	654.00	.9690-01	.7770-01	.1187	.9130	.3475-02	.5308-02	.6490	4.356	554.6
142	191.25	.38500	655.00	.1115	.8900-01	.1370	.9130	.3983-02	.6131-02	.7330	4.917	557.2
142	191.25	.39000	656.00	.1352	.1073	.1673	.9130	.4800-02	.7485-02	.8630	5.776	561.5
142	191.25	.39500	657.00	.1511	.1196	.1877	.9130	.5351-02	.8396-02	.9510	6.361	563.5
142	191.25	.40000	658.00	.1596	.1259	.1989	.9130	.5634-02	.8898-02	.9900	6.634	565.5
142	191.25	.40500	659.00	.1649	.1300	.2060	.9130	.5814-02	.9216-02	1.016	6.800	566.6
142	191.25	.41000	660.00	.1681	.1322	.2103	.9130	.5913-02	.9409-02	1.026	6.847	567.7
142	191.25	.41500	661.00	.1692	.1333	.2113	.9130	.5962-02	.9451-02	1.042	6.931	566.6
142	191.25	.42000	662.00	.2012	.1567	.2545	.9130	.7012-02	.1139-01	1.177	7.833	573.4
142	191.25	.42500	663.00	.2446	.1899	.3107	.9130	.8497-02	.1390-01	1.410	9.397	575.4
142	191.25	.43000	664.00	.2695	.2076	.3459	.9130	.9286-02	.1547-01	1.498	10.05	580.0
142	191.25	.44000	665.00	.1745	.1374	.2182	.9130	.6147-02	.9761-02	1.071	7.191	567.1
142	191.25	.45000	666.00	.9640-01	.7750-01	.1176	.9130	.3467-02	.5259-02	.6560	4.437	552.1
142	191 [illegible]	.45500	667.00	.6970-01	.5630-01	.8460-01	.9130	.2520-02	.3785-02	.4860	3.295	548.3
142	19[illegible]	.46000	668.00	.6410-01	.5180-01	.7770-01	.9130	.2318-02	.3474-02	.4500	3.058	547.4
142	191.25	.47000	669.00	.5930-01	.4790-01	.7200-01	.9130	2143-02	.3223-02	.4136	2.813	548.8
142	191.25	.48000	670.00	.9540-01	.7630-01	.1171	.9130	.3413-02	.5239-02	.6320	4.290	556.2
142	191.25	.49000	671.00	.1454	.1155	.1799	.9130	.5168-02	.8050-02	.9310	6.288	561.1
142	191.25	.50000	672.00	.1443	.1146	.1786	.9130	.5128-02	.7989-02	.9230	6.372	561.3
142	191.25	.60000	673.00	.6150-01	.5000-01	.7410-01	.9130	.2235-02	.3317-02	.4420	2.838	543.5
142	191.25	.70000	674.00	.6450-01	.5210-01	.7830-01	.9130	.2332-02	.3503-02	.4500	3.059	548.4
142	191.25	.85000	676.00	.4010-01	.3240-01	.4870-01	.9130	.1449-02	.2179-02	.2790	1.759	548.9
142	191.25	.86000	677.00	.5250-01	.4220-01	.6390-01	.9130	.1889-02	.2859-02	.3590	2.290	551.2
142	191.25	.87000	678.00	.5610-01	.4490-01	.6870-01	.9130	.2011-02	.3075-02	.3750	2.406	555.0
142	191.25	.88000	679.00	.7280-01	.5810-01	.8980-01	.9130	.2597-02	.4016-02	.4740	3.076	558.7
142	191.25	.89000	680.00	.9760-01	.7740-01	.1208	.9130	.3464-02	.5405-02	.6220	4.086	561.8
142	191.25	.90000	681.00	.9410-01	.7430-01	.1172	.9130	.3324-02	.5241-02	.5860	3.916	565.0
142	191.25	.91000	682.00	.3320-01	.2630-01	.4120-01	.9130	.1176-02	.1842-02	.2100	1.518	563.0
142	191.25	.92600	683.00	.3730-01	.2910-01	.4710-01	.9130	.1303-02	.2109-02	.2200	1.586	572.6
142	191.25	.95000	684.00	.3590-01	.2920-01	.4320-01	.9130	.1308-02	.1933-02	.2610	1.890	541.8

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F31)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
142	197.00	.33000	685.00	.2730-01	.2220-01	.3280-01	.9130	.9941-03	.1469-02	.1980	1.335	541.8
142	197.00	.34000	686.00	.3150-01	.2560-01	.3790-01	.9130	.1145-02	.1695-02	.2270	1.532	542.6
142	197.00	.35000	687.00	.3000-01	.2440-01	.3620-01	.9130	.1092-02	.1620-02	.2160	1.454	543.4
142	197.00	.36000	688.00	.3920-01	.3180-01	.4730-01	.9130	.1422-02	.2118-02	.2790	1.877	545.0
142	197.00	.37000	689.00	.4700-01	.3800-01	.5680-01	.9130	.1701-02	.2543-02	.3320	2.229	546.4
142	197.00	.37500	690.00	.5700-01	.4590-01	.6950-01	.9130	.2056-02	.3108-02	.3920	2.635	550.8
142	197.00	.50000	691.00	.1982	.1537	.2522	.9130	.6874-02	.1128-01	1.135	7.514	576.3
142	197.00	.60000	692.00	.8230-01	.6640-01	.1000+00	.9130	.2971-02	.4473-02	.5700	3.674	549.3
142	197.00	.70000	693.00	.1197	.9560-01	.1471	.9130	.4278-02	.6583-02	.7880	5.319	557.1
142	197.00	.80000	694.00	.1860-01	.1500-01	.2250-01	.9130	.6730-03	.1005-02	.1310	.8270	545.9
142	197.00	.87000	695.00	.5460-01	.4360-01	.6720-01	.9130	.1951-02	.3006-02	.3590	2.273	557.5
142	197.00	.92600	696.00	.4930-01	.3840-01	.6240-01	.9130	.1720-02	.2794-02	.2890	2.084	573.5
144	209.80	.15000-01	697.00	.1672	.1372	.1993	.9132	.6138-02	.8915-02	1.272	8.781	536.1
143	209.80	.30000-01	698.00	.1684	.1353	.1766	.9406	.6054-02	.7903-02	1.143	7.744	554.6
143	209.80	.50000-01	699.00	.2261	.1814	.2428	.9360	.8118-02	.1087-01	1.527	9.665	555.2
143	209.80	.70000-01	700.00	.2341	.1844	.2621	.9302	.8250-02	.1173-01	1.444	9.658	568.3
143	209.80	.10000+00	701.00	.1488	.1195	.1716	.9229	.5347-02	.7678-02	1.009	6.404	554.7
143	209.80	.15000	702.00	.5970-01	.4850-01	.7120-01	.9149	.2173-02	.3186-02	.4320	3.092	544.6
143	209.80	.20000	703.00	.2650-01	.2170-01	.3170-01	.9130	.9720-03	.1417-02	.2000	1.339	537.5
143	209.80	.30000	704.00	.3030-01	.2470-01	.3640-01	.9130	.1104-02	.1631-02	.2210	1.567	543.2
143	209.80	.35000	705.00	.3450-01	.2800-01	.4160-01	.9130	.1255-02	.1860-02	.2490	1.709	544.6
143	209.80	.37500	706.00	.5230-01	.4240-01	.6320-01	.9130	.1898-02	.2830-02	.3730	2.561	546.9
143	209.80	.50000	707.00	.7420-01	.5970-01	.9040-01	.9130	.2674-02	.4048-02	.5090	3.475	552.8
143	209.80	.60000	708.00	.5340-01	.4350-01	.6420-01	.9130	.1947-02	.2873-02	.3910	2.495	542.7
143	209.80	.70000	709.00	.4880-01	.3960-01	.5880-01	.9130	.1774-02	.2633-02	.3510	2.241	545.2
143	209.80	.80000	710.00	.1960-01	.1600-01	.2360-01	.9130	.7154-03	.1056-02	.1430	.8950	543.0
143	209.80	.87000	711.00	.3960-01	.3200-01	.4810-01	.9130	.1432-02	.2151-02	.2770	1.749	549.8
143	209.80	.92600	712.00	.4470-01	.3580-01	.5470-01	.9130	.1604-02	.2450-02	.3000	2.174	556.0
143	217.70	.15000-01	713.00	.9080-01	.7400-01	.1092	.9130	.3311-02	.4885-02	.6640	4.584	542.7
143	217.70	.30000-01	714.00	.1749	.1402	.1829	.9412	.6275-02	.8185-02	1.176	7.961	556.0
143	217.70	.50000-01	715.00	.2496	.1998	.2675	.9366	.8942-02	.1197-01	1.656	10.82	557.0
143	217.70	.70000-01	716.00	.2605	.2016	.2935	.9307	.9021-02	.1313-01	1.483	9.962	578.9
143	217.70	.10000+00	717.00	.1567	.1253	.1808	.9234	.5608-02	.8090-02	1.041	6.714	557.7
143	217.70	.15000	718.00	.6850-01	.5550-01	.8170-01	.9152	.2486-02	.3659-02	.4890	3.577	546.7
143	217.70	.20000	719.00	.2920-01	.2390-01	.3490-01	.9130	.1071-02	.1562-02	.2200	1.491	537.7
143	217.70	.30000	720.00	.3070-01	.2500-01	.3690-01	.9130	.1119-02	.1651-02	.2240	1.609	542.6
143	217.70	.35000	721.00	.4410-01	.3590-01	.5320-01	.9130	.1606-02	.2381-02	.3190	2.213	544.7
143	217.70	.50000	723.00	.4540-01	.3690-01	.5480-01	.9130	.1651-02	.2454-02	.3260	2.255	545.7
143	217.70	.60000	724.00	.3990-01	.3260-01	.4790-01	.9130	.1458-02	.2142-02	.2950	1.894	540.8
143	217.70	.70000	725.00	.3210-01	.2610-01	.3860-01	.9130	.1170-02	.1727-02	.2350	1.496	542.6
143	217.70	.80000	726.00	.2490-01	.2030-01	.2990-01	.9130	.9074-03	.1337-02	.1820	1.149	542.2
143	217.70	87000	727.00	.3090-01	.2500-01	.3740-01	.9130	.1121-02	.1672-02	.2200	1.404	547.3
143	217.70	.92600	728.00	.5870-01	.4700-01	.7200-01	.9130	.2103-02	.3222-02	.3910	2.832	557.1

ORIGINAL PAGE IS OF POOR QUALITY

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = 10.00 BETA = -6.000 GRIT = 4.000 RN/L = 5.000

•••TEST CONDITIONS•••

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	D 35 /FT3
177	4.520	5.058	10.01	6.000	-31.00	97.10	.3270	665.0	130.7	4.681	2532.	.2102-03
178	4.520	5.056	10.01	6.000	-31.00	97.10	.3270	665.0	130.7	4.680	2532.	.2101-03
179	4.520	5.051	10.00	6.000	-31.00	97.10	.3270	665.0	130.7	4.678	2532.	.2099-03
195	4.520	5.059	9.990	5.900	-31.00	97.00	.3270	664.0	130.6	4.677	2531.	.2101-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
177	.1052-06	.4739-01	.1140-01
178	.1052-06	.4738-01	.1140-01
179	.1052-06	.4737-01	.1140-01
195	.1051-06	.4736-01	.1140-01

•••TEST DATA•••

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
178	.00000	.30000-02	730.00	.4412	.2843	.3248	.9825	.1347-01	.1539-01	1.258	8.533	571.2
178	.00000	.10300-01	731.00	.2478	.1789	.3152	.9221	.8474-02	.1494-01	1.015	6.995	544.9
178	.00000	.15000-01	732.00	.2335	.1696	.2959	.9221	.8034-02	.1402-01	.9750	6.643	543.3
178	.00000	.25000-01	734.00	.6263	.3765	.4609	.9770	.1784-01	.2184-01	1.487	9.341	581.3
178	.00000	.30000-01	735.00	.9833	.5210	.6781	.9754	.2469-01	.3213-01	1.745	11.67	594.0
178	.00000	.40000-01	737.00	.5382	.3801	.4691	.9738	.1801-01	.2222-01	1.552	10.64	572.9
178	.00000	.45000-01	738.00	.5575	.3599	.4489	.9720	.1705-01	.2127-01	1.599	10.46	570.9
178	.00000	.50000-01	739.00	.4942	.3113	.4131	.9667	.1475-01	.1957-01	1.525	8.782	574.8
178	.00000	.70000-01	740.00	.4499	.2879	.3916	.9632	.1354-01	.1855-01	1.269	8.409	572.3
178	.00000	.80000-01	741.00	.3985	.2578	.3598	.9599	.1222-01	.1705-01	1.150	8.261	570.5
178	.00000	.10000+00	742.00	.3904	.2629	.3773	.9534	.1246-01	.1790-01	1.267	8.396	562.9
178	.00000	.12500	743.00	.2947	.1954	.3073	.9460	.9257-02	.1456-01	.9130	6.575	566.0
178	.00000	.15000	744.00	.2469	.1702	.2734	.9392	.8065-02	.1295-01	.6830	5.967	557.6
178	.00000	.17500	745.00	.1673	.1187	.1938	.9333	.5625-02	.9182-02	.6440	4.832	550.2
178	.00000	.20000	746.00	.1329	.9530-01	.1604	.9282	.4517-02	.7599-02	.5310	3.801	547.0
178	.00000	.21500	747.00	.1056	.7820-01	.1301	.9255	.3611-02	.6164-02	.4310	2.990	545.3

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV#32)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
178	.00000	.23000	748.00	.9180-01	.6620-01	.1156	.9234	.3134-02	.5479-02	.3730	2.759	545.6
178	.00000	.24000	749.00	.8010-01	.5780-01	.1022	.9221	.2739-02	.4841-02	.3270	2.467	545.3
178	.00000	.25000	750.00	.4440-01	.3230-01	.5620-01	.9221	.1531-02	2664-02	.1860	1.512	542.8
178	.00000	.30000	751.00	.7920-01	.5750-01	.1003	.9221	.2724-02	.4750-02	.3310	2.174	543.2
178	.00000	.35000	752.00	.8070-01	.5910-01	.1015	.9221	.2798-02	.4810-02	.3470	2.197	540.8
178	.00000	.40000	753.00	.7920-01	.5800-01	.9940-01	.9221	.2750-02	.4708-02	.3420	2.209	540.1
178	.00000	.50000	754.00	.7280-01	.5260-01	.9270-01	.9221	.2493-02	.4394-02	.2990	1.955	544.9
178	.00000	.60000	755.00	.4800-01	.3510-01	.6040-01	.9221	.1661-02	.2862-02	.2050	1.318	541.2
178	.00000	.70000	756.00	.8800-01	.6290-01	.1133	.9221	.2982 02	.5356-02	.3480	2.294	548.1
178	.00000	.80000	757.00	.8700-01	.6280-01	.1108	.9221	.2978-02	.5249-02	.3550	2.236	545.0
178	.00000	.90000	758.00	.4280-01	.3100-01	.5450-01	.9221	.1467-02	.2581-02	.1760	1.140	544.6
178	55.000	.22000	759.00	.9300-01	.6720-01	.1146	.9254	.3182-02	.5409-02	.3810	2.837	544.9
178	55.000	.25000	760.00	.5220-01	.3790-01	.6570-01	.9225	.1798-02	.3114-02	.2190	1.719	542.8
178	55.000	.27000	761.00	.6840-01	.4910-01	.8730-01	.9225	.2325-02	.4136-02	.2733	2.034	547.1
178	55.000	.30000	762.00	.8690-01	.6300-01	.1098	.9225	.2986-02	.5201-02	.3610	2.173	543.8
178	55.000	.32000	763.00	.1099	.7920-01	.1397	.9225	.3754-02	.6817-02	.4470	2.645	545.7
178	55.000	.34000	764.00	.1245	.8950-01	.1587	.9225	.4239-02	.7519-02	.5000	2.968	546.7
178	55.000	.36000	765.00	.1293	.9300-01	.1644	.9225	.4408-02	.7791-02	.5230	3.143	548.1
178	55.000	.38000	766.00	.1681	.1185	.2182	.9225	.5615-02	.1034-01	.6330	3 836	552.0
178	55.000	.40000	767.00	.1961	.1367	.2576	.9225	.6477-02	.1220-01	.7100	4.421	555.0
178	67.500	.23000	768.00	.7800-01	.5660-01	.9800-01	.9229	.2683-02	.4643-02	.3260	2.428	543.5
178	67.500	.25000	769.00	.4360-01	.3190-01	.5520-01	.9217	.1511-02	.2614-02	.1860	1.453	541.4
178	67.500	.27000	770.00	.6690-01	.4810-01	.8580-01	.9217	.2320-02	.4066-02	.2700	1.972	546.1
178	67.500	.29000	771.00	.6220-01	.4530-01	.7890-01	.9217	.2144-02	.3736-02	.2620	1.627	542.5
178	67.500	.30000	772.00	.1179	.8460-01	.1518	.9217	.4009-02	.7192-02	.4720	2.882	547.0
178	67.500	.31000	773.00	.1162	.8310-01	.1500	.9217	.3936-02	.7108-02	.4590	2.782	548.0
178	67.500	.32000	774.00	.1245	.8900-01	.1609	.9217	.4215-02	.7625-02	.4910	2.948	548.2
178	67.500	.32500	775.00	.1511	.1075	.1962	.9217	.5091-02	.9297-02	.5860	3.527	549.8
178	67.500	.33000	776.00	.1731	.1221	.2266	.9217	.5785-02	.1074-01	.6530	3.937	551.8
178	67.500	.33500	777.00	.2042	.1424	.2707	.9217	.6747-02	.1283-01	.7410	4.461	554.8
178	67.500	.34000	778.00	.2189	.1513	.2930	.9217	.7168-02	.1388-01	.7710	4.640	557.0
178	67.500	.34500	779.00	.2509	.1703	.3428	.9217	.8069-02	.1624-01	.8350	5.023	561.2
178	67.500	.35000	780.00	.2572	.1734	.3542	.9217	.8215-02	.1678-01	.8380	5.051	562.7
178	67.500	.35500	781.00	.2609	.1750	.3612	.9217	.8293-02	.1711-01	.8380	5.062	563.7
178	67.500	.36000	782.00	.2407	.1634	.3286	.9217	.7742-02	.1557-01	.8020	4.851	561.1
178	67.500	.36500	783.00	.2267	.1565	.3039	.9217	.7416-02	.1440-01	.7960	4.814	557.3
178	67.500	.37000	784.00	.2037	.1418	.2705	.9217	.6717-02	.1282-01	.7350	4.471	555.3
178	67.500	.37500	785.00	.2160	.1505	.2868	.9217	.7130-02	.1359-01	.7810	4.792	555.1
178	67.500	.38000	786.00	.1985	.1383	.2634	.9217	.6554-02	.1248-01	.7180	4.421	555.0
178	67.500	.39000	787.00	.1759	.1235	.2315	.9217	.5854-02	.1097-01	.6540	4.037	553.8
179	67.500	.40000	788.00	.1611	.1139	.2104	.9217	.5397-02	.9970-02	.6120	3.819	551.2
179	67.500	.50000	789.00	.8670-01	.6190-01	.1121	.9217	.2933-02	.5310-02	.3410	2.185	548.4
179	67.500	.60000	790.00	.8750-01	.6280-01	.1126	.9217	.2975-02	.5336-02	.3500	2.297	547.0

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
195	67.500	.70000	791.00	.3560-01	.2640-01	.4560-01	.9183	.1250-02	.2160-02	.1610	1.143	535.7
195	67.500	.80000	792.00	.5130-01	.3840-01	.6520-01	.9183	.1821-02	.3089-02	.2410	1.525	532.3
195	67.500	.90000	793.00	.5600-01	.4130-01	.7210-01	.9183	.1959-02	.3416-02	.2490	1.615	537.3
195	78.000	.27000	794.00	.3120-01	.2320-01	.3990-01	.9185	.1098-02	.1891-02	.1420	1.017	535.4
195	78.000	.29000	795.00	.6860-01	.5090-01	.8810-01	.9185	.2409-02	.4173-02	.3090	1.914	536.3
179	78.000	.30000	796.00	.1746	.1210	.2357	.9208	.5732-02	.1117-01	.6210	3.744	556.6
179	78.000	.31000	797.00	.2408	.1613	.3383	.9208	.7641-02	.1603-01	.7690	4.623	564.2
179	78.000	.32000	798.00	.2973	.1819	.4380	.9208	.9093-02	.2075-01	.8530	5.079	571.1
179	78.000	.32500	799.00	.3045	.1948	.4541	.9208	.9229-02	.2151-01	.8520	5.082	572.6
179	78.000	.33000	800.00	.3413	.2177	.5110	.9208	.1031-01	.2421-01	.9470	5.649	573.1
179	78.000	.33500	801.00	.3974	.2497	.6076	.9208	.1183-01	.2878-01	1.058	6.306	575.4
179	78.000	.34000	802.00	.4007	.2512	.6147	.9208	.1190-01	.2912-01	1.061	6.319	575.8
179	78.000	.34500	803.00	.3408	.2182	.5075	.9208	.1034-01	.2404-01	.9563	5.720	572.4
179	78.000	.35000	804.00	.3114	.2046	.4483	.9208	.9693-02	.2124-01	.9390	5.635	568.0
179	78.000	.35500	805.00	.2768	.1865	.3862	.9208	.8833-02	.1829-01	.9000	5.411	563.0
179	78.000	.36000	806.00	.2930	.1921	.3913	.9208	.9100-02	.1654-01	.9420	5.683	561.4
179	78.000	.36500	807.00	.2107	.1432	.2910	.9208	.6784-02	.1379-01	.7040	4.258	561.1
179	78.000	.37000	808.00	.1912	.1313	.2607	.9208	.6220-02	.1235-01	.6600	4.011	559.7
179	78.000	.37500	809.00	.1659	.1150	.2239	.9208	.5448-02	.1061-01	.5900	3.588	556.6
179	78.000	.38000	810.00	.1402	.9900-01	.1873	.9208	.4645-02	.8872-02	.5140	3.144	554.3
179	78.000	.38500	811.00	.1410	.9930-01	.1869	.9208	.4706-02	.8854-02	.5290	3.252	552.4
179	78.000	.39000	812.00	.1238	.8770-01	.1631	.9208	.4156-02	.7726-02	.4740	2.913	550.9
195	90.000	.40000-01	985.00	.3963	.2699	.3440	.9662	.1278-01	.1629-01	1.331	8.599	560.0
195	90.000	.50000-01	986.00	.4704	.3187	.4198	.9627	.1510-01	.1988-01	1.555	9.983	561.1
195	90.000	.60000-01	987.00	.4266	.2762	.3876	.9592	.1308-01	.1836-01	1.232	8.017	569.9
195	90.000	.70000-01	988.00	.3901	.2581	.3680	.9559	.1222-01	.1743-01	1.199	7.984	566.0
195	90.000	.80000-01	989.00	.3351	.2256	.3276	.9526	.1058-01	.1552-01	1.079	7.580	563.1
195	90.000	.10000+00	990.00	.3016	.2098	.3110	.9465	.9936-02	.1473-01	1.084	7.046	555.0
195	90.000	.15000	991.00	.1842	.1301	.2132	.9336	.6163-02	.1010-01	.6930	5.112	550.9
179	90.000	.20000	813.00	.6570-01	.4780-01	.6420-01	.9206	.2267-02	.3987-02	.2770	2.021	542.5
179	90.000	.24000	814.00	.5350-01	.3890-01	.6920-01	.9198	.1845-02	.3278-02	.2550	1.825	542.8
179	90.000	.27000	816.00	.5100-01	.3680-01	.6640-01	.9198	.1746-02	.3147-02	.2090	1.488	545.1
179	90.000	.29000	817.00	.2239	.1547	.3356	.9198	.7308-02	.1542-01	.7950	4.550	563.2
179	90.000	.30000	818.00	.3296	.2075	.5117	.9198	.9832-02	.2424-01	.8820	5.317	575.1
179	90.000	.31000	819.00	.3351	.2152	.5552	.9198	.1020-01	.2394-01	.9480	5.674	571.9
179	90.000	.32000	820.00	.3343	.2158	.5008	.9198	.1022-01	.2372-01	.9590	5.722	571.1
179	90.000	.32500	821.00	.3522	.2275	.5272	.9198	.1078-01	.2497-01	1.011	6.023	571.0
179	90.000	.33000	822.00	.4417	.2736	.6803	.9199	.1324-01	.3223-01	1.200	7.152	574.3
179	90.000	.33500	823.00	.4988	.3024	.8214	.9198	.1433-01	.3891-01	1.210	7.212	580.4
179	90.000	.34000	824.00	.4621	.2841	.7441	.9198	.1346-01	.3525-01	1.162	6.895	578.6
179	90.000	.34500	825.00	.4676	.2960	.8473	.9198	.1402-01	.4014-01	1.150	6.827	582.9
179	90.000	.35000	826.00	.5707	.3098	1.164	.9198	.1468-01	.5513-01	1.067	6.308	592.6
179	90.000	.36000	828.00	.3340	.2424	.6336	.9198	.1148-01	.3002-01	.9920	5.890	578.5

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F32)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
179	90.000	.36500	829.00	.3042	.2065	.4264	.9198	.9782-02	.2020-01	1.012	6.073	561.4
179	90.000	.37000	830.00	.1597	.1127	.2135	.9198	.5338-02	.1012-01	.6030	3.647	551.9
179	90.000	.37500	831.00	.1138	.8170-01	.1493	.9198	.3872-02	.7073-02	.4560	2.782	547.0
179	90.000	.38000	832.00	.8840-01	.6420-01	.1146	.9196	.3041-02	.5429-02	.3690	2.251	543.6
179	90.000	.39000	833.00	.7160-01	.5220-01	.9230-01	.9198	.2473-02	.4374-02	.3040	1.875	542.1
179	90.000	.40000	834.00	.7000-01	.5100-01	.9050-01	.9198	.2417-02	.4286-02	.2960	1.830	542.6
179	90.000	.50000	835.00	.6140-01	.4410-01	.8040-01	.9198	.2090-02	.3807-02	.2470	1.563	546.6
179	90.000	.60000	836.00	.5530-01	.4000-01	.7200-01	.9198	.1894-02	.3411-02	.2270	1.515	544.9
179	90.000	.70000	837.00	.4750-01	.3540-01	.6530-01	.9198	.1676-02	.3093-02	.1950	1.373	548.4
179	90.000	.80000	838.00	.5190-01	.3760-01	.6730-01	.9198	.1782-02	.3190-02	.2150	1.341	544.0
179	90.000	.90000	839.00	.8110-01	.5720-01	.1087	.9198	.2710-02	.5147-02	.3050	1.947	552.2
179	112.50	.23000	840.00	.4200-01	.3090-01	.5410-01	.9188	.1465-02	.2563-02	.1850	1.494	538.9
179	112.50	.25000	841.00	.3210-01	.2360-01	.4140-01	.9184	.1119-02	.1962-02	.1410	1.100	538.7
179	112.50	.30000	843.00	.7730-01	.5640-01	.1008	.9184	.2672-02	.4774-02	.3290	1.962	541.7
179	112.50	.33000	844.00	.1518	.1088	.2024	.9184	.5153-02	.9591-02	.6040	3.639	547.7
179	112.50	.35000	845.00	.1074	.7750-01	.1419	.9184	.3673-02	.6721-02	.4390	2.694	545.3
179	112.50	.37000	846.00	.5480-01	.4030-01	.7100-01	.9184	.1909-02	.3362-02	.2400	1.482	539.4
179	112.50	.40000	847.00	.1440-01	.1070-01	.1830-01	.9184	.5075-03	.8673-03	.6600-01	.4160	534.2
179	112.50	.50000	849.00	.2000-01	.1470-01	.2590-01	.9184	.6975-03	.1227-02	.8800-01	.5650	539.3
179	112.50	.55000	850.00	.3290-01	.2410-01	.4270-01	.9184	.1143-02	.2022-02	.1430	.9560	540.1
179	112.50	.60000	851.00	.7540-01	.5530-01	.9780-01	.9184	.2621-02	.4631-02	.3280	2.202	539.9
179	112.50	.65000	852.00	.6450-01	.4730-01	.8360-01	.9184	.2242-02	.3959-02	.2800	1.915	539.8
179	112.50	.70000	853.00	.6650-01	.4860-01	.8640-01	.9184	.2305-02	.4094-02	.2860	2.013	540.8
179	112.50	.75000	854.00	.4360-01	.3210-01	.5620-01	.9184	.1520-02	.2665-02	.1920	1.249	538.7
179	112.50	.80000	855.00	.4350-01	.3210-01	.5610-01	.9184	.1520-02	.2656-02	.1930	1.259	538.1
179	112.50	.90000	856.00	.9700-01	.7010-01	.1281	.9184	.3320-02	.6067-02	.3980	2.582	545.1
179	125.40	.84000	857.00	.1395	.1016	.1828	.9183	.4813-02	.8662-02	.5880	3.643	542.6
179	125.40	.85000	858.00	.1260	.9170-01	.1650	.9183	.4346-02	.7819-02	.5320	3.311	542.6
179	125.40	.86000	859.00	.8510-01	.6240-01	.1105	.9183	.2956-02	.5236-02	.3690	2.318	540.1
179	125.40	.87000	860.00	.8440-01	.6170-01	.1100	.9183	.2924-02	.5211-02	.3620	2.282	541.1
179	125.40	.88000	861.00	.9050-01	.6600-01	.1184	.9183	.3126-02	.5610-02	.3840	2.416	542.2
179	125.40	.89000	862.00	.1143	.8250-01	.1512	.9183	.3910-02	.7165-02	.4680	2.957	545.3
179	125.40	.90000	863.00	.1055	.7610-01	.1398	.9183	.3606-02	.6621-02	.4300	2.736	545.6
179	125.40	.91000	864.00	.7280-01	.5230-01	.9670-01	.9183	.2479-02	.4583-02	.2930	2.132	546.6
179	125.40	.92600	865.00	.1246	.8660-01	.1727	.9183	.4101-02	.8184-02	.4470	3.221	556.0
179	129.30	.80000	866.00	.9520-01	.6960-01	.1242	.9183	.3296-02	.5886-02	.4070	2.564	541.4
179	129.30	.81000	867.00	.8600-01	.6280-01	.1122	.9183	.2976-02	.5316-02	.3670	2.301	541.5
179	129.30	.82000	868.00	.7240-01	.5300-01	.9440-01	.9183	.2510-02	.4470-02	.3110	1.949	541.0
179	129.30	.83000	869.00	.1039	.7560-01	.1361	.9183	.3584-02	.6447-02	.4380	2.753	542.6
179	135.00	.40000-01	870.00	.3027	.2097	.2992	.9513	.9933-02	.1417-01	1.074	6.874	556.7
179	135.00	.50000-01	871.00	.3185	.2211	.3242	.9480	.1048-01	.1536-01	1.139	7.246	556.2
179	135.00	.60000-01	872.00	.2721	.1849	.2861	.9448	.8759-02	.1375-01	.9080	5.918	561.2
179	135.00	.70000-01	873.00	.2704	.1851	.2924	.9418	.8769-02	.1385-01	.9240	6.247	559.5

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F32)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
179	135.00	.10000+00	875.00	.1919	.1372	.2202	.9339	.6500-02	.1043-01	.7580	4.974	548.2
179	135.00	.15000	876.00	.9720-01	.7070-01	.1207	.9242	.3347-02	.5718-02	.4070	2.985	543.3
179	135.00	.20000	877.00	.4440-01	.3290-01	.5660-01	.9190	.1560-02	.2683-02	.2010	1.360	536.2
179	135.00	.35000	878.00	.3920-01	.2910-01	.5010-01	.9183	.1381-02	.2372-02	.1790	1.122	534.9
179	135.00	.40000	879.00	.1560-01	.1160-01	.1990-01	.9183	.5517-03	.9429-03	.7200-01	.4610	534.0
179	135.00	.50000	880.00	.6300-02	.4600-02	.8100-02	.9183	.2198-03	.3838-03	.2800-01	.1930	537.8
179	135.00	.55000	881.00	.2980-01	.2180-01	.3880-01	.9183	.1033-02	.1840-02	.1280	.8560	540.9
179	135.00	.60000	882.00	.4600-01	.3340-01	.6060-01	.9183	.1581-02	.2871-02	.1910	1.287	544.0
179	135.00	.65000	883.00	.8120-01	.5880-01	.1070	.9183	.2788-02	.5068-02	.3370	2.300	544.2
179	135.00	.70000	884.00	.5740-01	.4170-01	.7540-01	.9183	.1973-02	.3573-02	.2390	1.705	543.5
79	135.00	.75000	885.00	.5340-01	.3900-01	.6980-01	.9183	.1849-02	.3304-02	.2280	1.441	541.6
.79	135.00	.80000	886.00	.6930-01	.5060-01	.9060-01	.9183	.2397-02	.4290-02	.2950	1.858	541.8
195	135.00	.84000	887.00	.8670-01	.6440-01	.1100	.9196	.3050-02	.5211-02	.3930	2.484	535.7
195	135.00	.85000	888.00	.1426	.1030	.1886	.9183	.4879-02	.8930-02	.5830	3.703	544.5
195	135.00	.86000	889.00	.1005	.7420-01	.1235	.9183	.3515-02	.6135-02	.4470	2.837	537.1
195	135.00	.87000	890.00	.9060-01	.6700-01	.1168	.9183	.3172-02	.5532-02	.4030	2.576	537.0
195	135.00	.89000	892.00	.1174	.8580-01	.1531	.9183	.4065-02	.7250-02	.5020	3.276	540.6
195	135.00	.90000	893.00	.1353	.9830-01	.1777	9183	.4656-02	.8413-02	.5660	3.732	542.6
195	135.00	.91000	894.00	.1073	.7790-01	.1411	.9183	.3689-02	.6682-02	.4470	3.265	543.0
195	135.00	.92600	895.00	.2204	.1541	.3030	.9183	.7297-02	.1435-01	.8050	5.835	553.7
195	135.00	.95000	896.00	.6180-01	.4580-01	.7920-01	.9183	.2171-02	.3753-02	.2790	2.029	535.4
195	142.30	.42000	897.00	.2850-01	.2130-01	.3620-01	.9183	.1009-02	.1713-02	.1330	.8630	532.1
195	142.30	.43500	898.00	.5960-01	.4430-01	.7620-01	.9183	.2099-02	.3611-02	.2720	1.711	534.5
195	142.30	.45000	899.00	.2450-01	.1830-01	.3110-01	.9183	.8690-03	.1475-02	.1150	.7570	532.0
195	142.30	.50000	900.00	.1430-01	.1070-01	.1830-01	.9183	.5052-03	.8678-03	.6600-01	.4400	534.3
195	142.30	.60000	901.00	.4670-01	.3440-01	.6040-01	.9183	.1629-02	.2862-02	.2050	1.367	538.2
195	142.30	.70000	902.00	.6570-01	.4810-01	.8570-01	.9183	.2276-02	.4056-02	.2810	1.926	540.5
195	142.30	.80000	903.00	.6490-01	.4800-01	.8360-01	.9183	.2272-02	.3959-02	.2890	1.847	536.8
195	142.30	.87000	904.00	.1318	.9590-01	.1728	.9183	.4544-02	.8182-02	.5540	3.513	542.1
195	154.98	.42000	905.00	.5950-01	.4410-01	.7650-01	.9183	.2090-02	.3622-02	.2680	1.738	535.9
195	154.98	.43500	906.00	.6310-01	.4680-01	.8100-01	.9183	.2218-02	.3837-02	.2850	1.860	535.6
195	154.98	.45000	907.00	.3370-01	.2520-01	.4290-01	.9183	.1194-02	.2030-02	.1570	1.033	532.5
195	154.98	.50000	908.00	.4950-01	.3680-01	.6350-01	.9183	.1742-02	.3006-02	.2250	1.617	535.0
195	154.98	.93500	913.00	.3766	.2444	.5732	.9183	.1157-01	.2715-01	1.094	7.867	569.5
195	154.98	.94500	914.00	.1550	.1045	.2233	.9183	.4951-02	.1057-01	.5050	3.609	562.1
195	157.50	.80000-01	919.00	.1890	.1354	.2150	.9338	.6415-02	.1018-01	.7620	5.206	545.3
195	157.50	.20000	922.00	.2890-01	.2170-01	.3650-01	.9183	.1028-02	.1731-02	.1370	.9230	530.4
195	157.50	.42000	923.00	.4760-01	.3540-01	.6070-01	.9183	.1678-02	.2877-02	.2180	1.434	533.9
195	157.50	.43500	924.00	.4210-01	.3130-01	.5380-01	.9183	.1483-02	.2547-02	.1930	1.269	534.2
195	157.50	.45000	925.00	.4000-01	.2990-01	.5100-01	.9183	.1414-02	.2415-02	.1850	1.230	533.2
195	157.50	.85000	926.00	.5410-01	.3960-01	.7040-01	9183	.1877-02	.3332-02	.2330	1.513	539.9
195	157.50	.86000	927.00	.7300-01	.5350-01	.9500-01	.9183	.2534-02	.4501-02	.3150	2.047	540.0
195	157.50	.87000	928.00	.8070-01	.5880-01	.1058	.9183	.2784-02	.5011-02	.3400	2.216	542.0

(H41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F32)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TH DEG. R
195	157.50	.88000	929.00	.1131	.8150-01	.1498	.9183	.3861-02	.7095-02	.4600	3.010	545.1
195	157.50	.89000	930.00	.1411	.1003	.1903	.9183	.4750-02	.9012-02	.5450	3.582	549.4
195	157.50	.90000	931.00	.1507	.1063	.2051	.9183	.5033-02	.9714-02	.5670	3.811	551.5
195	157.50	.91000	932.00	.1032	.7290-01	.1401	.9183	.3450-02	.6635-02	.3900	2.848	551.1
195	157.50	.92600	933.00	.1484	.9910-01	.2169	.9183	.4692-02	.1027-01	.4690	3.388	564.2
195	163.12	.41500	934.00	.4800-01	.3570-01	.6130-01	.9183	.1692-02	.2902-02	.2200	1.438	534.0
195	163.12	.42000	935.00	.5560-01	.4130-01	.7130-01	.9183	.1957-02	.3377-02	.2530	1.663	535.0
195	163.12	.43000	937.00	.5960-01	.4390-01	.7720-01	.9183	.2077-02	.3655-02	.2610	1.720	538.4
195	163.12	.44000	938.00	.6770-01	.4980-01	.8770-01	.9183	.2356-02	.4155-02	.2950	1.94.	538.8
195	163.12	.44500	939.00	.7030-01	.5160-01	.9120-01	.9183	.2446-02	.4319-02	.3060	2.039	539.0
195	163.12	.45000	940.00	.7680-01	.5630-01	.9980-01	.9183	.2668-02	.4725-02	.3330	2.217	539.5
195	163.12	.50000	941.00	.1250	.8950-01	.1672	.9183	.4236-02	.7918-02	.4940	3.352	547.4
195	163.12	.60000	942.00	.7900-01	.5850-01	.1015	.9183	.2771-02	.4808-02	.3550	2.300	536.1
195	163.12	.70000	943.00	.5590-01	.4090-01	.7270-01	.9183	.1939-02	.3444-02	.2410	1.659	539.9
195	163.12	.80000	944.00	.4910-01	.3620-01	.6350-01	.9183	.1714-02	.3007-02	.2160	1.417	538.0
195	168.00	.35000	945.00	.2640-01	.1980-01	.3340-01	.9183	.9378-03	.1582-02	.1250	.7980	530.9
195	68.00	.36000	946.00	.2490-01	.1870-01	.3150-01	.9183	.8876-03	.1494-02	.1190	.7610	530.4
195	168.00	.37000	947.00	.2580-01	.1940-01	.3260-01	.9183	.9185-03	.1544-02	.1230	.7910	530.2
195	168.00	.37500	948.00	.2770-01	.2080-01	.3500-01	.9183	.9844-03	.1659-02	.1310	.8440	530.7
195	168.00	.38500	950.00	.2770-01	.2080-01	.3510-01	.9183	.9866-03	.1661-02	.1320	.8570	530.5
195	168.00	.39000	951.00	.3590-01	.2690-01	.4550-01	.9183	.1275-02	.2157-02	.1690	1.106	531.4
195	168.00	.39500	952.00	.4250-01	.3180-01	.5410-01	.9183	.1506-02	.2562-02	.1980	1.277	532.5
195	168.00	.40000	953.00	.4430-01	.3310-01	.5640-01	.9183	.1567-02	.2672-02	.2060	1.348	532.8
195	168.00	.40500	954.00	.4260-01	.3180-01	.5450-01	.9183	.1504-02	.2580-02	.1960	1.286	533.9
195	168.00	.41000	955.00	.4690-01	.3490-01	.6010-01	.9183	.1652-02	.2845-02	.2140	1.403	534.7
195	168.00	.41500	956.00	.5190-01	.3850-01	.6660-01	.9183	.1824-02	.3152-02	.2350	1.546	535.3
195	168.00	.42000	957.00	.6250-01	.4620-01	.8050-01	.9183	.2186-02	.3814-02	.2780	1.832	537.0
195	168.00	.42500	958.00	.5740-01	.4250-01	.7390-01	.9183	.2014-02	.3499-02	.2570	1.698	536.3
195	168.00	.43000	959.00	.9030-01	.6560-01	.1187	.9183	.3104-[illegible]	.5620-02	.3760	2.467	542.9
195	168.00	.44000	960.00	.1279	.9250-01	.1687	.9183	.4382 [illegible]	.7989-02	.5270	3.461	543.9
195	168.00	.44500	961.00	.1368	.9820-01	.1821	.9183	.4651-02	.8623-02	.5480	3.597	546.3
195	168.00	.45000	962.00	.1271	.9070-01	.1705	.9183	.4297-02	.8076-02	.4980	3.286	548.2
195	168.00	.45500	963.00	.1344	.9590-01	.1805	.9183	.4539-02	.8548-02	.5250	3.464	548.4
195	168.00	.46000	964.00	.1563	.1108	.2112	.9183	.5247-02	.1000-01	.5990	3.971	550.0
195	168.00	.47000	965.00	.1298	.9270-01	.1739	.9183	.4389-02	.8235-02	.5100	3.394	547.9
195	168.00	.48000	966.00	.1212	.8700-01	.1613	.9183	.4122-02	.7641-02	.4860	3.264	546.3
195	168.00	.49000	967.00	.1138	.8290-01	.1490	.9183	.3926-02	.7058-02	.4800	3.234	541.8
195	168.00	.85000	968.00	.5020-01	.3680-01	.6530-01	.9183	.1741-02	.3091-02	.2160	1.409	539.8
195	168.00	.86000	969.00	.9650-01	.7020-01	.1264	.9183	.3326-02	.5906-02	.4060	2.649	542.0
195	168.00	.87000	970.00	.1102	.7970-01	.1456	.9183	.3773-02	.6898-02	.4520	2.952	544.3
195	168.00	.88000	971.00	.1047	.7530-01	.1398	.9183	.3565 02	.6597-02	.4210	2.755	546.1
195	168.00	.89000	972.00	.1288	.9140-01	.1740	.9183	.4326-02	.8242-02	.4940	3.276	549.9
195	168.00	.90000	973.00	.1369	.9600-01	.1874	.9183	.4547-02	.8877-02	.5060	3.431	552.9

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F32)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
195	168.00	.91000	974.00	.1220	.8540-01	.1676	.9183	.4046-02	.7936-02	.4480	3.256	553.4
195	168.00	.95000	976.00	.1196	.8830-01	.1542	.9183	.4180-02	.7304-02	.5300	3.837	537.2
195	180.00	.20000-01	982.00	.1025	.7610-01	.1055	.9458	.3604-02	.4998-02	.4650	3.253	535.1
195	180.00	.25000-01	983.00	.1469	.1088	.1533	.9440	.5152-02	.7261-02	.6600	4.585	536.0
195	180.00	.30000-01	984.00	.1926	.1411	.2038	.9425	.6684-02	.9651-02	.8300	5.722	539.9
177	180.00	.40000-01	600.00	.2155	.1563	.2310	.9411	.7408-02	.1095-01	.8970	5.774	543.6
177	180.00	.50000-01	601.00	.2368	.1711	.2606	.9381	.8108-02	.1235-01	.9720	6.272	544.8
177	180.00	.60000-01	602.00	.2218	.1579	.2518	.9353	.7482-02	.1193-01	.8630	5.740	549.3
177	180.00	.70000-01	603.00	.1878	.1346	.2177	.9327	.6378-02	.1031-01	.7480	5.101	547.4
177	180.00	.80000-01	604.00	.1742	.1257	.2054	.9303	.5957-02	.9732-02	.7110	4.631	545.2
177	180.00	.10000+00	605.00	.1249	.9130-01	.1515	.9262	.4326-02	.7179-02	.5340	3.843	541.2
177	180.00	.15000	606.00	.5260-01	.3910-01	.6660-01	.9196	.1853-02	.3154-02	.2400	1.754	535.2
177	180.00	.20000	607.00	.1820-01	.1370-01	.2310-01	.9183	.6501-03	.1093-02	.8700-01	.5730	530.6
177	180.00	.21000	608.00	.1310-01	.9800-02	.1660-01	.9183	.4663-03	.7845-03	.6200-01	.4350	530.8
177	180.00	.22000	609.00	.1010-01	.7600-02	.1280-01	.9183	.3580-03	.6047-03	.4800-01	.3570	531.5
177	180.00	.35000	611.00	.2450-01	.1830-01	.3120-01	.9183	.8665-03	.1479-02	.1140	.7620	533.5
177	180.00	.36000	612.00	.2820-01	.2100-01	.3590-01	.9183	.9951-03	.1702-02	.1300	.8810	533.8
177	180.00	.37000	613.00	.2470-01	.1840-01	.3160-01	.9183	.8703-03	.1497-02	.1130	.7630	534.9
177	180.00	.37500	614.00	.3670-01	.2720-01	.4710-01	.9183	.1291-02	.2231-02	.1660	1.125	535.7
177	180.00	.38000	615.00	.4900-01	.3620-01	.6300-01	.9183	.1717-02	.2984-02	.2200	1.484	536.7
177	180.00	.38500	616.00	.3980-01	.2940-01	.5120-01	.9183	.1393-02	.2426-02	.1780	1.200	537.1
177	180.00	.39000	617.00	.3780-01	.2780-01	.4890-01	.9183	.1318-02	.2316-02	.1660	1.117	538.7
177	180.00	.39500	618.00	.4130-01	.3030-01	.5360-01	.9183	.1436-02	.2542-02	.1790	1.212	539.8
177	180.00	.40000	619.00	.5000-01	.3640-01	.6540-01	.9183	.1725-02	.3099-02	.2110	1.419	542.2
177	180.00	.40500	620.00	.5850-01	.4220-01	.7730-01	.9183	.2002-02	.3664-02	.2400	1.612	544.9
177	180.00	.41000	621.00	.8880-01	.6330-01	.1193	.9183	.3001-02	.5651-02	.3470	2.333	548.8
177	180.00	.41500	622.00	.1274	.8950-01	.1741	.9183	.4240-02	.8250-02	.4740	3.164	552.9
177	180.00	.42500	624.00	.1989	.1369	.2792	.9183	.6485-02	.1323-01	.6910	4.601	558.1
177	180.00	.43000	625.00	.2325	.1591	.3284	.9183	.7541-02	.1556-01	.7940	5.307	559.3
177	180.00	.44000	626.00	.2304	.1588	.3227	.9183	.7525-02	.1529-01	.8040	5.377	557.7
177	180.00	.44500	627.00	.2016	.1414	.2762	.9183	.6698-02	.1309-01	.7450	5.037	553.4
177	180.00	.45000	628.00	.1642	.1169	.2207	.9183	.5540-02	.1046-01	.6400	4.334	549.1
177	180.00	.45500	629.00	.1347	.9690-01	.1791	.9183	.4590-02	.8486-02	.5430	3.740	546.3
177	180.00	.46000	630.00	.1139	.8240-01	.1505	.9183	.3904-02	.7132-02	.4680	3.151	544.6
177	180.00	.47000	631.00	.8760-01	.6380-01	.1148	.9183	.3023-02	.5442-02	.3690	2.487	542.5
177	180.00	.48000	632.00	.8340-01	.6110-01	.1085	.9183	.2895-02	.5143-02	.3600	2.442	540.3
177	180.00	.49000	633.00	.6530-01	.4780-01	.8500-01	.9183	.2267-02	.4029-02	.2820	1.928	540.4
177	180.00	.50000	634.00	.6830-01	.5010-01	.8880-01	.9183	.2373-02	.4207-02	.2960	2.074	540.1
177	180.00	.55000	635.00	.6350-01	.4660-01	.8240-01	.9183	.2207-02	.3906-02	.2760	1.837	539.8
177	180.00	.60000	636.00	.8350-01	.6170-01	.1075	.9183	.2925-02	.5092-02	.3730	2.418	537.1
177	180.00	.65000	637.00	.7730-01	.5730-01	.9920-01	.9183	.2714-02	.4702-02	.3490	2.266	536.2
177	180.00	.70000	638.00	.4710-01	.3470-01	.6100-01	.9183	.1645-02	.2890-02	.2070	1.426	538.5
177	180.00	.75000	639.00	.4830-01	.3560-01	.6250-01	.9183	.1686-02	.2962-02	.2130	1.376	538.5

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F32)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
177	180.00	.80000	640.00	.4140-01	.3060-01	.5340-01	.9183	.1450-02	.2528-02	.1850	1.162	537.3
177	180.00	.85000	641.00	.7110-01	.5180-01	.9310-01	.9183	.2456-02	.4412-02	.3010	1.906	542.1
177	180.00	.86000	642.00	.1116	.8080-01	.1472	.9183	.3827-02	.6977-02	.4690	2.955	544.3
177	180.00	.87000	643.00	.1096	.7890-01	.1454	.9183	.3739-02	.6890-02	.4440	2.863	545.3
177	180.00	.88000	644.00	.1053	.7520-01	.1409	.9183	.3566-02	.6678-02	.4150	2.701	548.1
177	180.00	.89000	645.00	.1140	.8090-01	.1539	.9183	.3832-02	.7295-02	.4380	2.881	550.2
177	180.00	.90000	646.00	.8610-01	.6110-01	.1165	.9183	.2894-02	.5519-02	.3300	2.216	550.5
177	180.00	.92600	648.00	.2266	.1502	.3345	.9183	.7118-02	.1585-01	.7020	5.068	566.0
177	180.00	.95000	649.00	.3950-01	.2910-01	.5110-01	.9183	.1379-02	.2421-02	.1740	1.262	538.4
177	191.25	.35000	650.00	.2730-01	.2030-01	.3490-01	.9183	.9637-03	.1656-02	.1250	.8470	534.7
177	191.25	.36000	651.00	.2900-01	.2150-01	.3700-01	.9183	.1021-02	.1756-02	.1320	.8980	534.9
177	191.25	.37000	652.00	.3510-01	.2610-01	.4510-01	.9183	.1235-02	.2138-02	.1590	1.073	536.1
177	191.25	.37500	653.00	.3990-01	.2950-01	.5140-01	.9183	.1399-02	.2436-02	.1780	1.208	537.1
177	191.25	.38000	654.00	.4140-01	.3050-01	.5360-01	.9183	.1447-02	.2538-02	.1830	1.237	538.3
177	191.25	.38500	655.00	.4690-01	.3440-01	.6080-01	.9183	.1632-02	.2882-02	.2040	1.382	539.4
177	191.25	.39000	656.00	.4930-01	.3610-01	.6420-01	.9183	.1709-02	.3043-02	.2120	1.431	540.8
177	191.25	.39500	657.00	.3830-01	.2790-01	.5000-01	.9183	.1323-02	.2368-02	.1630	1.101	541.5
177	191.25	.40000	658.00	.6450-01	.4690-01	.8470-01	.9183	.2222-02	.4012-02	.2700	1.832	542.9
177	191.25	.40500	659.00	.7170-01	.5190-01	.9480-01	.9183	.2458-02	.4490-02	.2950	1.997	544.6
177	191.25	.41000	660.00	.1053	.7550-01	.1405	.9183	.3575-02	.6657-02	.4190	2.827	547.3
177	191.25	.41500	661.00	.1206	.8620-01	.1615	.9183	.4083-02	.7653-02	.4750	3.192	548.2
177	191.25	.42000	662.00	.1585	.1116	.2162	.9183	.5288-02	.1025-01	.5940	3.990	552.4
177	191.25	.42500	663.00	.1808	.1259	.2499	.9183	.5966-02	.1184-01	.6530	4.395	555.2
177	191.25	.43000	664.00	.2118	.1440	.3019	.9183	.6825-02	.1431-01	.7090	4.803	560.8
177	191.25	.44000	665.00	.1894	.1317	.2622	.9183	.6242-02	.1243-01	.6810	4.598	555.5
177	191.25	.45000	666.00	.1254	.9080-01	.1653	.9183	.4302-02	.7834-02	.5180	3.519	544.2
177	191.25	.45500	667.00	.9680-01	.7090-01	.1260	.9183	.3362-02	.5969-02	.4180	2.844	540.3
177	191.25	.46000	668.00	.7880-01	.5790-01	.1020	.9183	.2746-02	.4835-02	.3450	2.356	539.0
177	191.25	.47000	669.00	.5880-01	.4340-01	.7600-01	.9183	.2056-02	.3599-02	.2600	1.785	538.0
177	191.25	.48000	670.00	.5270-01	.3880-01	.6820-01	.9183	.1840-02	.3231-02	.2320	1.591	538.5
177	191.25	.49000	671.00	.7130-01	.5200-01	.9340-01	.9183	.2463-02	.4427-02	.3010	2.055	542.2
177	191.25	.50000	672.00	.9340-01	.6720-01	.1241	.9183	.3182-02	.5881-02	.3770	2.619	546.3
177	191.25	.60000	673.00	.6550-01	.4860-01	.8400-01	.9183	.2305-02	.3980-02	.2970	1.918	535.6
177	191.25	.70000	674.00	.5300-01	.3880-01	.6900-01	.9183	.1837-02	.3271-02	.2270	1.552	540.8
177	191.25	.85000	676.00	.7800-01	.5690-01	.1019	.9183	.2695-02	.4828-02	.3310	2.100	541.7
177	191.25	.86000	677.00	.8300-01	.6040-01	.1090	.9183	.2860-02	.5164-02	.3480	2.230	542.9
177	191.25	.87000	678.00	.7750-01	.5600-01	.1023	.9183	.2655-02	.4845-02	.3190	2.058	544.5
177	191.25	.88000	679.00	.8640-01	.6210-01	.1149	.9183	.2942-02	.5444-	.3480	2.269	54[illegible] 4
177	191.25	.89000	680.00	.8950-01	.6390-01	.1201	.9183	.3027-02	.5692-	.3510	2.321	[illegible]
177	191.25	.90000	681.00	.8480-01	.6000-01	.1151	.9183	.2843-02	.5453-02	.3220	2.169	[illegible].2
177	191.25	.91000	682.00	.7820-01	.5540-01	.1060	.9183	.2623-02	.5022-02	.2980	2.171	550.9
177	191.25	.92600	683.00	.1376	.9410-01	.1946	.9183	.4461-02	.9222-02	.4690	3.412	559.4
177	191.25	.95000	684.00	.3510-01	.2600-01	.4520-01	.9183	.1232-02	.2143-02	.1570	1.142	536.9

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F32)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TH DEG. R
177	197.00	.33000	685.00	.2670-01	.1990-01	.3410-01	.9183	.9416-03	.1618-02	.1220	.8270	534.7
177	197.00	.34000	686.00	.3000-01	.2230-01	.3850-01	.9183	.1057-02	.1822-02	.1370	.9250	535.2
177	197.00	.35000	687.00	.3570-01	.2660-01	.4570-01	.9183	.1260-02	.2164-02	.1640	1.106	534.7
177	197.00	.36000	688.00	.3640-01	.2700-01	.4670-01	.9183	.1280-02	.2215-02	.1650	1.114	535.9
177	197.00	.37000	689.00	.4120-01	.3050-01	.5290-01	.9183	.1446-02	.2509-02	.1850	1.252	536.5
177	197.00	.37500	690.00	.4940-01	.3630-01	.6410-01	.9183	.1722-02	.3038-02	.2160	1.461	539.2
177	197.00	.50000	691.00	.1327	.9120-01	.1866	.9183	.4322-02	.8842-02	.4590	3.067	558.4
177	197.00	.60000	692.00	.6580-01	.4850-01	.8500-01	.9183	.2300-02	.4030-02	.2910	1.884	538.1
177	197.00	.70000	693.00	.6930-01	.4960-01	.9240-01	.9183	.2352-02	.4380-02	.2760	1.870	547.3
177	197.00	.80000	694.00	.1580-01	.1160-01	.2040-01	.9183	.5499-03	.9688-03	.6900-01	.4360	539.0
195	197.00	.87000	695.00	.1308	.9320-01	.1746	.9190	.4415-02	.8272-02	.5100	3.249	549.3
195	197.00	.92600	696.00	.5490-01	.3590-01	.8200-01	.9190	.1700-02	.3884-02	.1630	1.179	569.1
195	209.80	.15000-01	697.00	.2120	.1548	.2759	.9187	.7333-02	.1307-01	.9030	6.218	541.7
178	209.80	.30000-01	698.00	.1529	.1117	.1647	.9403	.5294-02	.7804-02	.6530	4.455	541.3
178	209.80	.50000-01	699.00	.1916	.1405	.2132	.9361	.6657-02	.1010-01	.8300	5.296	539.9
178	209.80	.70000-01	700.00	.1726	.1246	.2025	.9309	.5904-02	.9594-02	.7060	4.776	545.1
178	209.80	.10000+00	701.00	.1104	.8150-01	.1345	.9248	.3862-02	.6374-02	.4900	3.138	537.8
178	209.80	.15000	702.00	.4470-01	.3340-01	.5660-01	.9190	.1582-02	.2684-02	.2070	1.494	533.5
178	209.80	.20000	703.00	.2280-01	.1710-01	.2880-01	.9183	.8100-03	.1365-02	.1080	.7260	531.2
178	209.80	.30000	704.00	.2780-01	.2060-01	.3560-01	.9183	.9772-03	.1688-02	.1260	.8980	535.7
178	209.80	.35000	705.00	.4050-01	.3000-01	.5210-01	.9183	.1422-02	.2467-02	.1820	1.255	536.4
178	209.80	.37500	706.00	.5270-01	.3880-01	.6830-01	.9183	.1838-02	.3237-02	.2310	1.591	539.0
178	209.80	.50000	707.00	.9940-01	.7180-01	.1314	.9183	.3402-02	.6224-02	.4070	2.792	544.9
178	209.80	.60000	708.00	.5560-01	.4150-01	.7090-01	.9183	.1968-02	.3358-02	.2580	1.657	533.4
178	209.80	.70000	709.00	.3550-01	.2630-01	.4560-01	.9183	.1246-02	.2162-02	.1600	1.023	536.5
178	209.80	.80000	710.00	.3330-01	.2470-01	.4270-01	.9183	.1170-02	.2024-02	.1500	.9430	536.0
178	209.80	.87000	711.00	.4910-01	.3610-01	.6380-01	.9183	.1708-02	.3023-02	.2130	1.353	539.8
178	209.80	.92600	712.00	.9600-01	.6920-01	.1272	.9183	.3280-02	.6026-02	.3910	2.844	545.5
178	217.70	.15000-01	713.00	.9790-01	.7280-01	.1254	.9183	.3447-02	.5939-02	.4460	3.090	535.2
178	217.70	.30000-01	714.00	.1597	.1169	.1718	.9404	.5538-02	.8141-02	.6860	4.682	540.8
178	217.70	.50000-01	715.00	.2087	.1528	.2322	.9361	.7242-02	.1100-01	.8990	5.886	540.5
178	217.70	.70000-01	716.00	.1736	.1237	.2051	.9309	.5862-02	.9720-02	.6780	4.621	549.0
178	217.70	.10000+00	717.00	.1132	.8350-01	.1379	.9248	.3957-02	.6536-02	.5010	3.266	538.0
178	217.70	.15000	718.00	.5010-01	.3730-01	.6360-01	.9191	.1768-02	.3011-02	.2300	1.697	534.3
178	217.70	.20000	719.00	.2470-01	.1860-01	.3120-01	.9183	.8801-03	.1479-02	.1180	.8020	530.5
178	217.70	.30000	720.00	.2950-01	.2190-01	.3790-01	.9183	.1038-02	.1796-02	.1340	.9610	536.0
178	217.70	.35000	721.00	.4860-01	.3580-01	.6280-01	.9183	.1696-02	.2973-02	.2140	1.492	538.2
178	217.70	.37500	722.00	.7100-01	.5210-01	.9220-01	.9183	.2469-02	.4370-02	.3080	2.142	539.9
178	217.70	.50000	723.00	.6300-01	.4630-01	.8170-01	.9183	.2193-02	.3873-02	.2740	1.903	539.5
178	217.70	.60000	724.00	.4050-01	.3030-01	.5140-01	.9183	.1435-02	.2436-02	.1900	1.222	532.5
178	217.70	.70000	725.00	.2600-01	.1930-01	.3330-01	.9183	.9168-03	.1577-02	.1190	.7600	535.0
178	217.70	.80000	726.00	.2470-01	.1830-01	.3170-01	.9183	.8689-03	.1504-02	.1120	.7060	536.0
178	217.70	.87000	727.00	.4310-01	.3170-01	.5600-01	.9183	.1500-02	.2655-02	.1870	1.202	539.8

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
178	217.70	.92600	728.00	.7940-01	.5700-01	.1058	.9183	.2700-02	.5013-02	.3180	2.310	547.0

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = 10.00 BETA = -6.000 GRIT = 4.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
123	5.500	4.963	10.03	6.000	-31.00	177.6	.1910	742.0	105.3	4.043	2765.	.1521-03
145	5.500	4.981	10.01	6.000	-31.00	177.7	.1910	741.0	105.1	4.045	2762.	.1525-03
146	5.500	4.955	10.00	6.000	-31.00	177.9	.1910	744.0	105.5	4.049	2768.	.1521-03
147	5.500	4.994	10.01	6.000	-31.00	177.9	.1910	740.0	105.0	4.050	2761.	.1528-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
123	.8478-07	.4474-01	.1365-01
145	.8459-07	.4474-01	.1363-01
146	.8494-07	.4479-01	.1365-01
147	.8452-07	.4476-01	.1361-01

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
146	.00000	.30000-02	730.00	.4152	.3110	.3459	.9799	.1392-01	.1548-01	2.053	13.78	592.6
146	.00000	.10300-01	731.00	.2156	.1735	.2551	.9181	.7764-02	.1142-01	1.470	10.11	550.8
146	.00000	.15000-01	732.00	.1883	.1524	.2217	.9181	.6819-02	.9924-02	1.321	8.988	546.4
146	.00000	.25000-01	734.00	.6231	.4530	.5254	.9748	.2028-01	.2352-01	2.748	18.17	604.6
146	.00000	.30000-01	735.00	.9095	.6176	.7461	.9732	.2765-01	.3340-01	3.188	20.99	624.8
145	.00000	.40000-01	737.00	.5770	.4301	.5025	.9717	.1925-01	.2249-01	2.797	17.82	594.8
146	.00000	.45000-01	738.00	.5105	.3834	.4508	.9700	.1716-01	.2018-01	2.551	16.52	591.4
146	.00000	.60000-01	739.00	.4662	.3428	.4212	.9648	.1534-01	.1885-01	2.145	14.04	600.3
146	.00000	.70000-01	740.00	.4383	.3245	.4057	.9614	.1452-01	.1816-01	2.071	13.65	597.5
146	.00000	.80000-01	741.00	.4035	.3001	.3820	.9582	.1343-01	.1710-01	1.941	13.77	585.6
146	.00000	.10000+00	742.00	.3596	.2739	.3557	.9517	.1226-01	.1592-01	1.903	12.48	584.8
146	.00000	.12500	743.00	.2627	.1986	.2730	.9442	.8890-02	.1222-01	1.348	9.598	588.5
146	.00000	.15000	744.00	.2073	.1596	.2244	.9372	.7144-02	.1005-01	1.149	7.859	579.3
146	.00000	.17500	745.00	.1378	.1078	.1542	.9309	.4826-02	.6901-02	.8210	6.056	570.0
146	.00000	.20000	746.00	.1104	.8720-01	.1272	.9253	.3904-02	.5693-02	.6870	4.870	564.2
146	.00000	.21500	747.00	.6910-01	.7060-01	.1043	.9223	.3160-02	.4668-02	.5620	3.867	562.2

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F32)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
146	.00000	.23000	748.00	.7500-01	.5950-01	.8910-01	.9197	.2662-02	.3990-02	.4750	3.486	561.6
146	.00000	.24000	749.00	.6220-01	.4940-01	.7460-01	.9181	.2211-02	.3340-02	.3960	2.967	560.9
146	.00000	.25000	750.00	.2640-01	.2110-01	.3140-01	.9181	.9462-03	.1406-02	.1750	1.414	554.7
146	.00000	.30000	751.00	.7090-01	.5650-01	.8470-01	.9181	.2528-02	.3790-02	.4600	3.004	558.0
146	.00000	.35000	752.00	.7180-01	.5720-01	.8570-01	.9181	.2562-02	.3836-02	.4670	2.938	557.6
146	.00000	.40000	753.00	.6460-01	.5120-01	.7750-01	.9181	.2292-02	.3469-02	.4090	2.613	561.5
146	.00000	.50000	754.00	.7070-01	.5550-01	.8560-01	.9181	.2484-02	.3831-02	.4280	2.771	567.8
146	.00000	.60000	755.00	.6140-01	.4850-01	.7390-01	.9181	.2170-02	.3307-02	.3820	2.430	563.9
146	.00000	.70000	756.00	.8940-01	.7030-01	.1082	.9181	.3149-02	.4841-02	.5460	3.567	566.8
146	.00000	.80000	757.00	.8890-01	.7090-01	.1060	.9181	.3176-02	.4746-02	.5810	3.625	557.0
146	.00000	.90000	758.00	.4990-01	.4030-01	.5880-01	.9181	.1802-02	.2632-02	.3460	2.238	548.0
146	55.000	.22000	759.00	.8120-01	.6410-01	.9520-01	.9221	.2871-02	.4262-02	.5070	3.741	563.5
146	55.000	.25000	760.00	.3410-01	.2720-01	.4050-01	.9187	.1217-02	.1811-02	.2230	1.740	556.7
146	55.000	.27000	761.00	.3900-01	.3080-01	.4680-01	.9187	.1376-02	.2094-02	.2420	1.782	564.5
146	55.000	.30000	762.00	.7880-01	.6260-01	.9400-01	.9187	.2801-02	.4206-02	.5050	3.014	559.9
146	55.000	.32000	763.00	.9910-01	.7820-01	.1190	.9187	.3502-02	.5328-02	.6150	3.604	564.6
146	55.000	.34000	764.00	.1052	.8220-01	.1274	.9187	.3681-02	.5704-02	.6240	3.660	570.5
146	55.000	.36000	765.00	.1090	.8500-01	.1323	.9187	.3806-02	.5922-02	.6410	3.806	571.7
146	55.000	.38000	766.00	.1429	.1097	.1762	.9187	.4911-02	.7886-02	.7830	4.681	580.6
146	55.000	.40000	767.00	.1407	.1063	.1765	.9187	.4759-02	.7899-02	.7200	4.408	588.7
146	67.500	.23000	768.00	.5820-01	.4630-01	.6930-01	.9192	.2072-02	.3101-02	.3730	2.760	559.9
146	67.500	.25000	769.00	.3180-01	.2550-01	.3790-01	.9176	.1141-02	.1696-02	.2120	1.646	553.9
146	67.500	.27000	770.00	.4060-01	.3220-01	.4900-01	.9176	.1441-02	.2192-02	.2560	1.855	562.2
146	67.500	.29000	771.00	.4100-01	.3270-01	.4890-01	.9176	.1465-02	.2190-02	.2700	1.664	556.0
146	67.500	.30000	772.00	.1016	.8030-01	.1227	.9176	.3596-02	.5491-02	.6350	3.848	563.5
146	67.500	.31000	773.00	.1203	.9450-01	.1461	.9176	.4232-02	.6539-02	.7310	4.386	567.3
146	67.500	.32000	774.00	.1240	.9710-01	.1512	.9176	.4346-02	.6766-02	.7410	4.402	569.7
146	67.500	.32500	775.00	.1393	.1086	.1704	.9176	.4861-02	.7628-02	.8170	4.861	572.1
146	67.500	.33000	776.00	.1623	.1259	.1997	.9176	.5635-02	.8941-02	.9290	5.535	575.3
146	67.500	.33500	777.00	.1897	.1457	.2359	.9176	.6521-02	.1056-01	1.040	6.179	580.7
146	67.500	.34000	778.00	.2028	.1548	.2537	.9176	.6930-02	.1136-01	1.083	6.429	583.8
146	67.500	.34500	779.00	.2227	.1680	.2821	.9176	.7520-02	.1263-01	1.133	6.724	589.4
146	67.500	.35000	780.00	.2358	.1768	.3007	.9176	.7915-02	.1346-01	1.171	6.958	592.2
146	67.500	.35500	781.00	.2383	.1759	.3094	.9176	.7873-02	.1385-01	1.112	6.604	598.9
146	67.500	.36000	782.00	.2069	.1532	.2677	.9176	.6856-02	.1198-01	.9770	5.806	597.6
146	67.500	.36500	783.00	.1813	.1354	.2321	.9176	.6061-02	.1039-01	.8870	5.265	593.8
146	67.500	.37000	784.00	.1680	.1263	.2136	.9176	.5654-02	.9959-02	.8430	5.043	590.9
146	67.500	.37500	785.00	.1565	.1179	.1985	.9176	.5278-02	.8884-02	.7930	4.780	589.9
146	67.500	.38000	786.00	.1529	.1151	.1940	.9176	.5154-02	.8686-02	.7730	4.672	590.2
146	67.500	.39000	787.00	.1495	.1129	.1893	.9176	.5052-02	.8471-02	.7530	4.629	589.1
146	67.500	.40000	788.00	.1444	.1095	.1817	.9176	.4903-02	.8134-02	.7520	4.609	586.6
146	67.500	.50000	789.00	.8500-01	.6520-01	.1059	.9176	.2917-02	.4740-02	.4620	2.911	581.7
146	67.500	.60000	790.00	.8770-01	.6760-01	.1085	.9176	.3026-02	.4855-02	.4900	3.163	578.3

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
146	67.500	.70000	791.00	.8270-01	.6410-01	.1019	.9176	.2868-02	.4560-02	.4710	3.280	575.8
146	67.500	.80000	792.00	.7940-01	.6260-01	.9610-01	.9176	.2801-02	.4300-02	.4900	3.051	565.2
146	67.500	.90000	793.00	.4260-01	.3390-01	.5100-01	.9176	.1518-02	.2281-02	.2760	1.771	558.1
146	78.000	.27000	794.00	.3840-01	.3060-01	.4630-01	.9165	.1368-02	.2074-02	.2490	1.762	558.4
146	78.000	.29000	795.00	.9740-01	.7730-01	.1180	.9165	.3460-02	.5282-02	.6200	3.795	560.9
147	78.000	.30000	796.00	.1769	.1382	.2177	.9165	.6192-02	.9752-02	1.054	6.302	573.6
147	78.000	.31000	797.00	.2617	.1988	.3322	.9165	.8905-02	.1488-01	1.378	9.177	589.1
147	78.000	.32000	798.00	.2877	.2121	.3781	.9165	.9500-02	.1694-01	1.344	7.884	602.3
147	78.000	.32500	799.00	.2949	.2153	.3919	.9165	.9645-02	.1755-01	1.330	7.808	605.9
147	78.000	.33000	800.00	.2981	.2149	.3964	.9165	.9525-02	.1776-01	1.306	7.659	608.1
147	78.000	.33500	801.00	.3188	.2304	.4294	.9165	.1032-01	.1923-01	1.384	8.107	609.7
147	78.000	.34000	802.00	.3390	.2423	.5211	.9165	.1264-01	.2334-01	1.714	10.05	609.3
147	78.000	.34500	803.00	.3597	.2619	.4799	.9165	.1173-01	.2150-01	1.604	9.438	607.0
147	78.000	.35000	804.00	.2942	.2174	.3858	.9165	.9735-02	.1728-01	1.385	8.173	601.6
147	78.000	.35500	805.00	.2638	.1953	.3398	.9165	.8882-02	.1518-01	1.331	7.876	594.0
147	78.000	.36000	806.00	.2402	.1819	.3052	.9165	.8148-02	.1370-01	1.250	7.454	590.4
147	78.000	.36500	807.00	.2280	.1734	.2991	.9165	.7767-02	.1295-01	1.206	7.200	588.5
147	78.000	.37000	808.00	.2044	.1565	.2671	.9165	.7010-02	.1151-01	1.114	6.676	586.0
147	78.000	.37500	809.00	.1873	.1388	.2032	.9165	.6773-02	.9370-02	.9343	5.610	588.0
147	78.000	.38000	810.00	.1648	.1244	.1874	.9165	.4677-02	.7782-02	.7784	4.577	592.7
147	78.000	.38500	811.00	.1178	.9180-01	.1456	.9165	.4113-02	.6522-02	.6991	4.204	595.6
147	78.000	.39000	812.00	.1114	.8380-01	.1374	.9165	.3889-02	.6182-02	.6570	3.992	594.9
123	90.000	.49000-01	986.00	.3745	.2810	.3469	.9554	.1302-01	.1548-01	.1687	13.89	575.9
123	90.000	.50000-01	985.00	.4161	.3129	.3931	.9609	.1449-01	.1709-01	2.385	15.19	577.8
123	90.000	.60000-01	987.00	.3735	.2821	.3561	.9575	.1282-01	.1593-01	1.913	12.32	580.8
123	90.000	.70000-01	988.00	.3638	.2680	.3446	.9542	.1204-01	.1542-01	1.858	11.89	584.4
123	90.000	.80000-01	989.00	.3303	.2446	.3183	.9510	.1095-01	.1424-01	1.724	11.09	584.9
123	90.000	.10000+00	990.00	.2894	.2228	.2951	.9448	.9869-02	.1320-01	1.667	10.72	575.2
123	90.000	.15000	991.00	.1837	.1382	.1827	.9313	.5735-02	.8173-02	.9830	7.120	571.2
147	90.000	.20000	813.00	.5470-01	.4410-01	.6520-01	.9163	.1976-02	.2981-02	.3610	2.751	581.2
147	90.000	.25000	814.00	.4460-01	.3600-01	.5370-01	.9152	.1638-02	.2704-02	.3310	2.602	581.2
147	90.000	.27000	815.00	.3870-01	.3080-01	.3810-01	.9152	.1144-02	.1704-02	.2010	1.588	581.7
147	90.000	.29000	816.00	.2517	.1793	.2523	.9152	.7385-02	.1312-01	1.288	7.883	582.5
147	90.000	.30000	817.00	.2917	.2088	.4379	.9152	.1043-01	.1951-01	1.905	9.354	589.3
147	90.000	.31000	818.00	.2799	.2006	.4217	.9152	.1041-01	.1933-01	1.924	9.509	597.0
147	90.000	.32000	819.00	.2795	.2001	.4330	.9152	.1057-01	.1939-01	1.957	9.615	602.1
147	90.000	.32500	820.00	.3085	.2207	.4770	.9152	.1003-01	.1822-01	1.928	9.251	603.5
147	90.000	.33000	821.00	.3047	.2200	.4808	.9152	.1173-01	.2151-01	1.845	9.569	604.2
147	90.000	.33500	822.00	.3527	.2537	.5533	.9152	.1392-01	.2552-01	2.522	14.32	610.5
147	90.000	.34000	823.00	.3869	.2796	.6071	.9152	.1562-01	.3005-01	2.035	11.81	618.3
147	90.000	.34500	824.00	.4346	.3135	.6710	.9152	.1562-01	.2975-01	1.797	10.47	620.3
147	90.000	.35000	825.00	.4548	.3282	.6543	.9152	.1755-01	.4246-01	1.696	10.67	637.2
147	90.000	.35500	826.00	.5339	.3857	.9480	.9152	.1732-01	.4294-01	1.589	9.254	617.0
147	90.000	.36000	828.00	.3959	.2798	.5569	.9152	.1253-01	.2494-01			

(RV7F32)

(HN)(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ T2SEC	DTWDT DEG. R /SEC	TW DEG. R
147	90.000	.36500	829.00	.2437	.1852	.3123	.9152	.8296-02	.1399-01	.287	7.619	588.7
147	90.000	.37000	830.00	.1676	.1309	.2084	.9152	.5862-02	.9332-02	.9950	5.950	574.1
147	90.000	.37500	831.00	.1029	.8140-01	.1261	.9152	.3645-02	.5649-02	.6480	7.914	565.9
147	90.000	.38000	832.00	.8120-01	.6480-01	.9860-01	.9152	.2902-02	.4418-02	.5340	3.232	559.9
147	90.000	.38500	833.00	.7540-01	.6060-01	.9100-01	.9152	.2713-02	.4075-02	.5120	3.145	555.0
147	90.000	.39000	834.00	.6620-01	.5310-01	.7990-01	.9152	.2377-02	.3580-02	.4470	2.747	555.9
147	90.000	.40000	834.00	.6620-01	.5310-01	.7990-01	.9152	.1802-02	.2812-02	.3170	1.980	568.1
147	90.000	.50000	835.00	.5100-01	.4020-01	.6280-01	.9152	.1922-02	.3011-02	.3350	2.208	569.4
147	90.000	.60000	836.00	.5450-01	.4290-01	.6720-01	.9152	.1981-02	.2960-02	.3260	2.266	570.7
147	90.000	.70000	837.00	.5350-01	.4200-01	.6610-01	.9152	.1771-02	.2694-02	.3260	2.015	569.6
147	90.000	.80000	838.00	.4950-01	.3950-01	.6010-01	.9152	.2966-02	.4497-02	.5500	3.496	568.4
147	90.000	.90000	839.00	.8290-01	.6620-01	.1004	.9152	.1209-02	.1777-02	.2420	1.958	543.3
147	112.50	.23000	840.00	.3310-01	.2700-01	.3970-01	.9138	.2861-02	.4314-02	.5490	3.251	552.2
147	112.50	.30000	843.00	.7930-01	.6390-01	.9630-01	.9133	.5181-02	.7973-02	.9650	5.718	559.6
147	112.50	.33000	844.00	.1449	.1157	.1780	.9133	.4710-02	.7208-02	.8770	5.344	557.5
147	112.50	.35000	845.00	.1314	.1052	.1609	.9133	.2749-02	.4114-02	.5350	3.290	549.3
147	112.50	.37000	846.00	.7590-01	.6140-01	.9180-01	.9133	.8157-03	.1188-02	.1660	1.050	538.1
147	112.50	.40000	847.00	.2220-01	.1820-01	.2650-01	.9133	.4467-03	.6503-03	.9200-01	.5810	537.8
147	112.50	.45000	849.00	.1220-01	.1000-01	.1450-01	.9133	.6668-03	.9736-03	.1370	.8810	539.1
147	112.50	.50000	849.00	.1820-01	.1490-01	.2170-01	.9133	.9159-03	.1340-02	.1970	1.251	540.1
147	112.50	.55000	850.00	.2500-01	.2040-01	.2990-01	.9133	.1495-02	.2196-02	.3020	2.032	541.6
147	112.50	.60000	851.00	.4090-01	.3340-01	.4900-01	.9133	.1722-02	.2541-02	.3450	2.351	543.5
147	112.50	.65000	852.00	.4720-01	.3850-01	.5670-01	.9133	.2035-02	.3021-02	.4030	2.827	546.0
147	112.50	.70000	853.00	.5600-01	.4540-01	.6740-01	.9133	.1766-02	.2616-02	.3510	2.275	545.3
147	112.50	.75000	854.00	.4850-01	.3940-01	.5840-01	.9133	.1993-02	.2967-02	.3920	2.545	547.3
147	112.50	.80000	855.00	.5490-01	.4450-01	.6630-01	.9133	.3459-02	.5227-02	.6600	4.266	553.1
147	112.50	.90000	856.00	.9590-01	.7720-01	.1167	.9133	.4095-02	.6167-02	.7890	4.853	551.2
147	125.40	.84000	857.00	.1133	.9140-01	.1377	.9130	.4044-02	.6079-02	.7820	4.860	550.5
147	125.40	.85000	858.00	.1118	.9030-01	.1357	.9130	.2978-02	.4472-02	.5770	3.609	550.1
147	125.40	.86000	859.00	.8230-01	.6650-01	.9990-01	.9130	.2993-02	.4505-02	.5770	3.622	550.9
147	125.40	.87000	860.00	.8280-01	.6680-01	.1006	.9130	.3190-02	.4814-02	.6120	3.835	552.0
147	125.40	.88000	861.00	.8830-01	.7120-01	.1075	.9130	.3037-02	.4629-02	.5710	3.596	555.7
147	125.40	.89000	862.00	.8450-01	.6780-01	.1034	.9130	.2889-02	.4404-02	.5430	3.439	555.7
147	125.40	.90000	863.00	.8040-01	.6450-01	.9830-01	.9130	.1860-02	.2850-02	.3470	2.507	557.5
147	125.40	.91000	864.00	.5190-01	.4150-01	.6360-01	.9130	.2011-02	.3260-02	.3400	2.427	574.9
147	125.40	.92600	865.00	.5760-01	.4490-01	.7280-01	.9130	.1193-02	.1787-02	.2320	1.458	549.1
147	129.30	.80000	866.00	.3290-01	.2660-01	.3990-01	.9130	.1882-02	.2822-02	.3660	2.283	549.5
147	129.30	.81000	867.00	.5200-01	.4200-01	.6300-01	.9130	.2058-02	.3084-02	.4000	2.499	549.2
147	129.30	.82000	868.00	.5680-01	.4600-01	.6890-01	.9130	.2762-02	.4176-02	.5280	3.297	552.7
147	129.30	.83000	869.00	.7660-01	.6170-01	.9320-01	.9130	.1048-01	.1335-01	1.825	11.60	569.6
147	135.00	.40000-01	870.00	.2975	.2340	.2981	.9497	.1035-01	.1337-01	1.836	11.62	566.5
147	135.00	.50000-01	871.00	.2925	.2312	.2984	.9463	.9653-02	.1294-01	1.608	10.52	577.2
147	135.00	.60000-01	872.00	.2775	.2155	.2890	.9431	.9029-02	.1230-01	1.517	10.17	575.8
147	135.00	.70000-01	873.00	.2589	.2016	.2746	.9400					

(IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F32)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAH/TO	TAH/TO	H(TO) BTU/ R FT2SEC	H(TAH) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TH DEG. R
147	135.00	.10000+00	875.00	.1781	.1420	.1965	.9316	.6358-02	.8801-02	1.166	7.599	560.4
147	135.00	.15000	876.00	.9590-01	.7720-01	.1117	.9207	.3456-02	.5004-02	.6590	4.811	553.0
147	135.00	.20000	877.00	.4180-01	.3410-01	.4980-01	.9141	.1527-02	.2230-02	.3090	2.092	541.2
147	135.00	.35000	878.00	.3780-01	.3090-01	.4520-01	.9130	.1384-02	.2025-02	.2830	1.764	539.4
147	135.00	.40000	879.00	.1880-01	.1540-01	.2250-01	.9130	.6893-03	.1006-02	.1420	.9020	538.3
147	135.00	.50000	880.00	.1170-01	.9500-02	.1400-01	.9130	.4271-03	.6271-03	.8700-01	.5970	540.9
147	135.00	.55000	881.00	.1300-01	.1060-01	.1570-01	.9130	.4753-03	.7026-03	.9500-01	.6340	543.8
147	135.00	.60000	882.00	.3110-01	.2520-01	.3770-01	.9130	.1128-02	.1688-02	.2230	1.477	548.7
147	135.00	.65000	883.00	.6610-01	.5350-01	.8010-01	.9130	.2397-02	.3586-02	.4680	3.187	548.7
147	135.00	.70000	884.00	.5190-01	.4200-01	.6290-01	.9130	.1879-02	.2817-02	.3650	2.593	549.5
147	135.00	.75000	885.00	.5120-01	.4140-01	.6210-01	.9130	.1856-02	.2781-02	.3610	2.273	549.2
147	135.00	.80000	886.00	.5080-01	.4100-01	.6160-01	.9130	.1836-02	.2760-02	.3590	2.227	550.5
147	135.00	.84000	887.00	.1348	.1075	.1661	.9130	.4813-02	.7438-02	.6826	5.608	560.5
123	135.00	.85000	888.00	.1577	.1253	.1949	.9130	.5607-02	.8721-02	1.014	6.381	561.5
123	135.00	.86000	889.00	.7440-01	.5970-01	.9090-01	.9130	.2670-02	.4067-02	.5020	3.163	554.3
123	135.00	.87000	890.00	.8160-01	.6560-01	.9970-01	.9130	.2933-02	.4460-02	.5530	3.506	553.7
123	135.00	.89000	891.00	.7970-01	.6390-01	.9770-01	.9130	.2859-02	.4370-02	.5340	3.400	555.5
123	135.00	.89000	892.00	.1002	.7990-01	.1234	.9130	.3575-02	.5520-02	.6550	4.237	559.1
123	135.00	.90000	893.00	.9360-01	.7440-01	.1158	.9130	.3328-02	.5184-02	.6030	3.921	562.0
123	135.00	.91000	894.00	.5610-01	.4450-01	.6940-01	.9130	.1992-02	.3105-02	.3590	2.599	562.1
123	135.00	.92600	895.00	.1170	.9090-01	.1485	.9130	.4063-02	.6545-02	.6770	4.880	575.9
123	135.00	.95000	896.00	.4840-01	.3880-01	.5930-01	.9130	.1735-02	.2853-02	.3e+0	2.331	555.6
123	142.30	.42000	897.00	.2200-01	.1800-01	.2650-01	.9130	.8035-03	.1184-02	.1610	1.041	541.4
123	142.30	.43500	898.00	.4710-01	.3840-01	.5670-01	.9130	.1718-02	.2538-02	.3430	2.160	542.5
123	142.30	.45000	899.00	.1740-01	.1420-01	.2090-01	.9130	.6335-03	.9352-03	.1270	.8380	542.2
123	142.30	.50000	900.00	.1590-01	.1290-01	.1920-01	.9130	.5788-03	.8612-03	.1140	.7600	545.4
123	142.30	.60000	901.00	.4620-01	.3730-01	.5600-01	.9130	.1670-02	.2506-02	.3230	2.146	548.7
123	142.30	.70000	902.00	.8450-01	.6790-01	.1033	.9130	.3037-02	.4623-02	.5720	3.882	553.9
123	142.30	.80000	903.00	.5720-01	.4580-01	.6990-01	.9130	.2051-02	.3129-02	.3840	2.433	554.9
123	142.30	.87000	904.00	.1361	.1082	.1681	.9130	.4840-02	.7521-02	.8770	5.503	561.2
123	154.99	.42000	905.00	.6288-01	.5090-01	.7590-01	.9130	.2279-02	.3336-02	.4470	2.866	546.3
123	154.98	.43500	906.00	.4610-01	.3750-01	.5560-01	.9130	.1679-02	.2488-02	.3330	2.165	543.8
123	154.98	.45000	907.00	.3050-01	.2480-01	.3670-01	.9130	.1110-02	.1641-02	.2220	1.450	542.6
123	154.98	.50000	908.00	.1490-01	.1220-01	.1800-01	.9130	.5368-03	.8049-03	.1040	.7440	548.4
123	154.99	.60000	913.00	.5357	.3925	.7339	.9130	.1756-01	.3284-01	2.439	17.24	603.5
123	154.98	.69500	914.00	.2783	.2037	.3630	.9130	.9392-02	.1824-01	1.435	10.11	589.4
123	157.50	.80000-01	919.00	.1743	.1393	.1829	.9314	.6180-02	.8839-02	1.114	7.544	562.3
123	157.50	.20000	922.00	.2540-01	.2150-01	.3160-01	.9130	.9852-03	.1414-02	.1850	1.304	559.9
123	157.50	.42000	923.00	.4120-01	.3340-01	.4980-01	.9130	.1494-02	.2229-02	.2830	1.909	546.5
123	157.50	.43500	924.00	.4910-01	.3980-01	.5820-01	.9130	.1743-02	.2603-02	.3400	2.224	547.2
123	157.50	.45000	925.00	.3960-01	.3200-01	.4770-01	.9130	.1434-02	.2136-02	.2920	1.860	545.9
123	157.50	.85000	926.00	.9230-01	.7340-01	.1138	.9130	.3288-02	.5091-02	.5990	3.845	560.2
123	157.50	.86000	927.00	.8283-01	.6590-01	.1023	.9130	.2946-02	.4577-02	.5340	3.437	561.2

(RV7F32)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
123	157.50	.87000	928.00	.7960-01	.6320-01	.9850-01	.9130	.2827-02	.4408-02	.5090	3.286	562.3
123	157.50	.88000	929.00	.8200-01	.6470-01	.1022	.9130	.2894-02	.4572-02	.5090	3.301	566.
123	157.50	.89000	930.00	.9360-01	.7320-01	.1180	.9130	.3275-02	.5278-02	.5570	3.623	572.2
123	157.50	.90000	931.00	.8190-01	.6360-01	.1039	.9130	.2846-02	.4650-02	.4740	3.147	575.9
123	157.50	.91000	932.00	.5780-01	.4470-01	.7380-01	.9130	.2001-02	.3303-02	.3280	2.362	578.5
123	157.50	.92600	933.00	.5962	.4397	.8095	.9130	.1967-01	.3622-01	2.782	19.75	601.0
123	163.12	.41500	934.00	.5160-01	.4190-01	.6240-01	.9130	.1875-02	.2791-02	.3690	2.393	545.6
123	163.12	.42000	935.00	.5270-01	.4270-01	.6380-01	.9130	.1909-02	.2858-02	.3720	2.431	547.6
123	163.12	.43000	937.00	.5590-01	.4500-01	.6810-01	.9130	.2012-02	.3048-02	.3820	2.499	552.5
123	163.12	.44000	938.00	.6230-01	.5010-01	.7590-01	.9130	.2241-02	.3397-02	.4250	2.775	552.6
123	163.12	.44500	939.00	.5170-01	.4170-01	.6300-01	.9130	.1864-02	.2820-02	.3550	2.352	551.9
123	163.12	.45000	940.00	.4660-01	.3750-01	.5680-01	.9130	.1680-02	.2540-02	.3210	2.124	551.6
123	163.12	.50000	941.00	.1150	.9140-01	.1421	.9130	.4091-02	.6359-02	.7410	4.968	561.3
123	163.12	.60000	942.00	.6340-01	.5110-01	.7720-01	.9130	.2288-02	.3454-02	.4380	2.819	550.9
123	163.12	.70000	943.00	.2620-01	.2100-01	.3220-01	.9130	.9379-03	.1442-02	.1730	1.164	557.3
123	163.12	.80000	944.00	.3680-01	.3100-01	.4780-01	.9130	.1387-02	.2138-02	.2550	1.655	568.5
123	168.00	.35000	945.00	.1730-01	.1420-01	.2080-01	.9130	.6333-03	.9291-03	.1280	.8170	539.5
123	168.00	.36000	946.00	.1590-01	.1300-01	.1900-01	.9130	.5811-03	.8515-03	.1180	.7540	539.0
123	168.00	.37000	947.00	.1920-01	.15.0-01	.2300-01	.9130	.7005-03	.1030-02	.1410	.9060	540.4
123	168.00	.37500	948.00	.2250-01	.1830-01	.2700-01	.9130	.8208-03	.1210-02	.1650	1.054	541.5
123	168.00	.38500	950.00	.2860-01	.2340-01	.3440-01	.9130	.1045-02	.1538-02	.2110	1.364	540.7
123	168.00	.39000	951.00	.3450-01	.2810-01	.4150-01	.9130	.1256-02	.1856-02	.2510	1.632	542.5
123	168.00	.39500	952.00	.3960-01	.3220-01	.4770-01	.9130	.1441-02	.2135-02	.2860	1.833	543.7
123	168.00	.40000	953.00	.3750-01	.3040-01	.4520-01	.9130	.1362-02	.2023-02	.2690	1.753	544.7
123	168.00	.40500	954.00	.4100-01	.3320-01	.4950-01	.9130	.1487-02	.2216-02	.2920	1.906	546.0
123	168.00	.41000	955.00	.4260-01	.3450-01	.5160-01	.9130	.1542-02	.2310-02	.3080	1.954	548.0
123	168.00	.41500	956.00	.4150-01	.3350-01	.5050-01	.9130	.1497-02	.2259-02	.2870	1.873	550.2
123	168.00	.42000	957.00	.5230-01	.4210-01	.6370-01	.9130	.1884-02	.2851-02	.3590	2.347	552.0
123	168.00	.42500	958.00	.5700-01	.4600-01	.6920-01	.9130	.2059-02	.3036-02	.3970	2.600	549.6
123	168.00	.43000	959.00	.6960-01	.5550-01	.8580-01	.9130	.2483-02	.3840-02	.4540	2.950	559.6
123	168.00	.44000	960.00	.9070-01	.7240-01	.1115	.9130	.3242-02	.4990-02	.5970	3.899	558.1
123	168.00	.44500	961.00	.9020-01	.7210-01	.1108	.9130	.3228-02	.4957-02	.5980	3.902	557.2
123	168.00	.45000	962.00	.8800-01	.7010-01	.1084	.9130	.3136-02	.4851-02	.5730	3.758	559.7
123	168.00	.45500	963.00	.8410-01	.6700-01	.1036	.9130	.2998-02	.4636-02	.5480	3.596	559.5
123	168.00	.46000	964.00	.9030-01	.7190-01	.1115	.9130	.3218-02	.4987-02	.5860	3.865	560.3
123	168.00	.47000	965.00	.9670-01	.7680-01	.1195	.9130	.3438-02	.5343-02	.6220	4.113	561.5
123	168.00	.48000	966.00	.1100	.8740-01	.1361	.9130	.3908-02	.6087-02	.7050	4.704	561.9
123	168.00	.49000	967.00	.1067	.8530-01	.1308	.9130	.3819-02	.5855-02	.7090	4.743	556.6
123	168.00	.85000	968.00	.1106	.8800-01	.1365	.9130	.3938-02	.6107-02	.7160	4.615	560.5
123	168.00	.86000	969.00	.8290-01	.6580-01	.1027	.9130	.2945-02	.4595-02	.5300	3.420	562.5
123	168.00	.87000	970.00	.7730-01	.6110-01	.9610-01	.9130	.2735-02	.4302-02	.4850	3.136	565.0
123	168.00	.88000	971.00	.8740-01	.6870-01	.1036	.9130	.3072-02	.4906-02	.5210	3.433	569.6
123	168.00	.89000	972.00	.9630-01	.7500-01	.1221	.9130	.3354-02	.5464-02	.5610	3.671	575.2

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RVTF32)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
123	168.00	.90000	973.00	.8930-01	.6900-01	.1140	.9130	.3089-02	.5099-02	.5060	3.390	578.5
123	168.00	.91000	974.00	.6270-01	.4830-01	.8030-01	.9130	.2163-02	.3593-02	.3510	2.519	580.1
123	168.00	.92600	975.00	.4529	.3347	.6130	.9130	.1498-01	.2743-01	2.131	15.03	600.1
123	168.00	.95000	976.00	.1035	.8310-01	.1263	.9130	.3720-02	.5653-02	.7030	5.043	553.4
123	180.00	.20000-01	982.00	.9120-01	.7400-01	.9380-01	.9440	.3311-02	.4199-02	.6510	4.531	545.6
123	180.00	.25000-01	983.00	.1453	.1171	.1510	.9421	.5237-02	.6758-02	1.000	6.894	551.4
123	180.00	.30000-01	984.00	.1896	.1512	.1986	.9406	.6767-02	.8888-02	1.251	8.545	557.5
145	180.00	.40000-01	600.00	.2055	.1640	.2174	.9392	.7337-02	.9726-02	1.345	8.601	557.4
145	180.00	.50000-01	601.00	.2231	.1779	.2401	.9360	.7958-02	.1074-01	1.455	9.330	557.9
145	180.00	.60000-01	602.00	.1990	.1571	.2187	.9330	.7030-02	.9786-02	1.238	8.172	564.6
145	180.00	.70000-01	603.00	.1756	.1392	.1959	.9302	.6226-02	.8762-02	1.112	7.528	562.2
145	180.00	.80000-01	604.00	.1660	.1323	.1873	.9276	5920-02	.8381-02	1.080	6.988	558.2
145	180.00	.10000+00	605.00	.1099	.8840-01	.1266	.9230	.3955-02	.5664-02	.7470	5.348	551.8
145	180.00	.15000	606.00	.4750-01	.3860-01	.5650-01	.9150	.1727-02	.2529-02	.3430	2.498	542.2
145	180.00	.20000	607.00	.1550-01	.1270-01	.1850-01	.9130	.5673-03	.8282-03	.1160	.7610	536.2
145	180.00	.21000	608.00	.1020-01	.8300-02	.1220-01	.9130	.3729-03	.5445-03	.7600-01	.5300	536.3
145	180.00	.22000	609.00	.9400-02	.7700-02	.1130-01	.9130	.3455-03	.5058-03	.7000-01	.5250	537.4
145	180.00	.30000	610.00	.1330-01	.1080-01	.1600-01	.9130	.4843-03	.7140-03	.9700-01	.6660	540.5
145	180.00	.35000	611.00	.2400-01	.1960-01	.2890-01	.9130	.8768-03	.1291-02	.1760	1.176	540.0
145	180.00	.36000	612.00	.2640-01	.2150-01	.3170-01	.9130	.9624-03	.1419-02	.1930	1.300	540.5
145	180.00	.37000	613.00	.2880-01	.2340-01	.3460-01	.9130	.1048-02	.1549-02	.2090	1.406	541.6
145	180.00	.37500	614.00	.3050-01	2480-01	.3680-01	.9130	.1109-02	.1644-02	.2190	1.477	543.0
145	180.00	.38000	615.00	.2780-01	.2250-01	.3360-01	.9130	.1007-02	.1501-02	.1970	1.325	545.1
145	180.00	.38500	616.00	.3130-01	.2530-01	.3790-01	.9130	.1130-02	.1696-02	.2180	1.468	547.5
145	180.00	.39000	617.00	.3440-01	.2770-01	.4200-01	.9130	.1238-02	.1879-02	.2340	1.562	551.9
145	.80.00	.39500	618.00	.3810-01	.3040-01	.4670-01	.9130	.1361-02	.2091-02	.2510	1.686	556.1
145	180.00	.40000	619.00	.6090-01	.4830-01	.7540-01	.9130	.2162-02	.3371-02	.3880	2.583	561.1
145	180.00	.40500	620.00	.7730-01	.6090-01	.9640-01	.9130	.2727-02	.4315-02	.4770	3.178	565.7
145	180.00	.41000	621.00	.1165	.9130-01	.1464	.9130	.4084-02	.6551-02	.6990	4.645	569.6
145	180.00	.41500	622.00	.1391	.1085	.1759	.9130	.4854-02	.7868-02	.8160	5.401	572.5
145	180.00	.42500	624.00	.1829	.1418	.2328	.9130	.6346-02	.1042-01	1.046	6.911	575.8
145	180.00	.43000	625.00	.1844	.1428	.2351	.9130	.6389-02	.1052-01	1.049	6.948	576.5
145	180.00	.44000	626.00	.1964	.1528	.2489	.9130	.6838-02	.1114-01	1.142	7.570	573.8
145	180.00	.44500	627.00	.1774	.1394	.2222	.9130	.6239-02	.9942-02	1.080	7.245	567.7
145	180.00	.45000	628.00	.1469	.1163	.1823	.9130	.5204-02	.8157-02	.9260	6.234	562.7
145	180.00	.45500	629.00	.1169	.9310-01	.1442	.9130	.4165-02	.6452-02	.7570	5.185	558.9
145	180.00	.46000	630.00	.1056	.8460-01	.1303	.9130	.3785-02	.5830-02	.6950	4.650	557.0
145	180.00	.47000	631.00	.8890-01	.7120-01	.1089	.9130	.3186-02	.4870-02	.5930	3.974	554.4
145	180.00	.48000	632.00	.6350-01	.5110-01	.7750-01	.9130	.2284-02	.3468-02	.4310	2.910	551.9
145	180.00	.49000	633.00	.6560-01	.5290-01	.7990-01	.9130	.2367-02	.3573-02	.4520	3.081	549.8
145	180.00	.50000	634.00	.6040-01	.4880-01	.7320-01	.9130	.2183-02	.3276-02	.4210	2.947	547.7
145	180.00	.55000	635.00	.3700-01	.3010-01	.4470-01	.9130	.1346-02	.1999-02	.2660	1.768	543.4
145	180.00	.60000	636.00	.5180-01	.4220-01	.6240-01	.9130	.1886-02	.2792-02	.3750	2.423	542.1

(RV7F32)

1H41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
145	180.00	.65000	637.00	.5180-01	.4200-01	.6260-01	.9130	.1879-02	.2800-02	.3680	2.383	544.9
145	180.00	.70000	638.00	.5380-01	.4330-01	.6560-01	.9130	.1936-02	.2933-02	.3670	2.507	551.1
145	180.00	.75000	639.00	.3640-01	2940-01	.4420-01	.9130	.1314-02	.1979-02	.2520	1.622	549.0
145	180.00	.80000	640.00	.3830-01	.3080-01	.4670-01	.9130	.1379-02	.2090-02	.2610	1.634	551.2
145	180.00	.86000	642.00	.8540-01	.6800-01	.1053	.9130	.3043-02	.4710-02	.5540	3.531	558.7
145	180.00	.87000	643.00	.6620-01	.5250-01	.8200-01	.9130	.2349-02	.3667-02	.4210	2.696	561.4
145	180.00	.88000	644.00	.6180-01	.4880-01	.7700-01	.9130	.2182-02	.3445-02	.3840	2.472	565.0
145	180.00	.89000	645.00	.9940-01	.7800-01	.1247	.9130	.3491-02	.5581-02	.6010	3.911	568.7
145	180.00	.90000	646.00	.6440-01	.5050-01	.8070-01	.9130	.2259-02	.3612-02	.3890	2.585	568.7
145	180.00	.92600	648.00	.3498	.2644	.4598	.9130	.1183-01	.2057-01	1.794	12.81	589.1
145	180.00	.95000	649.00	.3800-01	.3100-01	.4570-01	.9130	.1385-02	.2046-02	.2760	2.000	541.4
145	191.25	.35000	650.00	.2330-01	.1900-01	.2800-01	.9130	.8506-03	.1254-02	1700	1.148	540.6
145	191.25	.36000	651.00	.2650-01	.2160-01	.3200-01	.9130	.9662-03	.1430-02	.1920	1.298	542.0
145	191.25	.37000	652.00	.3090-01	.2510-01	.3730-01	.9130	.1121-02	.1669-02	.2200	1.481	544.4
145	191.25	.37500	653.00	.3410-01	.2760-01	.4130-01	.9130	.1235-02	.1847-02	.2400	1.620	546.2
145	191.25	.38000	654.00	.3600-01	.2910-01	.4370-01	.9130	.1303-02	.1955-02	.2520	1.695	5 7.6
145	191.25	.38500	655.00	.3840-01	.3100-01	.4680-01	.9130	.1387-02	.2092-02	.2650	1.785	549.5
145	191.25	.39000	656.00	.4260-01	.3430-01	.5200-01	.9130	.1533-02	.2329-02	.2890	1.943	552.2
145	191.25	.39500	657.00	.5290-01	.4240-01	.6480-01	.9130	.1898-02	.2899-02	.3540	2.379	554.1
145	191.25	.40000	658.00	.6890-01	.5500-01	.8470-01	.9130	.2461-02	.3787-02	.4530	3.048	556.7
145	191.25	.40500	659.00	.8260-01	.6580-01	.1018	.9130	.2946-02	.4556-02	.5370	3.611	558.4
145	191.25	.41000	660.00	.1052	.8360-01	.1301	.9130	.3741-02	.5319-02	.6750	4.522	560.3
145	191.25	.41500	661.00	.1182	.9390-01	.1462	.9130	.4200-02	.6542-02	.7560	5.045	560.8
145	191.25	.42000	662.00	.1465	.1153	.1832	.9130	.5158-02	.8199-02	.8960	5.982	567.0
145	191.25	.42500	663.00	.1665	.1301	.2101	.9130	.5818-02	.9398-02	.9840	6.575	571.5
145	191.25	.43000	664.00	.1939	.1491	.2494	.9130	.6671-02	.1116-01	1.069	7.173	580.5
145	191.25	.44000	665.00	.1883	.1467	.2383	.9130	.6565-02	.1066-01	1.101	7.372	573.0
145	191.25	.45000	666.00	.1228	.9810-01	.1509	.9130	.4391-02	.6751-02	.8090	5.463	556.4
145	191.25	.45500	667.00	.9380-01	.7560-01	.1141	.9130	.3381-02	.5105-02	.6450	4.369	549.9
145	191.25	.46000	668.00	.7630-01	.6160-01	.9260-01	.9130	.2758-02	.4141-02	.5320	3.618	547.8
145	191.25	.47000	669.00	.5640-01	.4570-01	.6820-01	.9130	.2046-02	.3052-02	.4000	2.731	545.3
145	191.25	.48000	670.00	.5350-01	.4330-01	.6480-01	.9130	.1937-02	.2900-02	.3760	2.568	546.6
145	191.25	.49000	671.00	.6350-01	.5120-01	.7710-01	.9130	.2292-02	.3452-02	.4400	2.989	548.9
145	191.25	.50000	672.00	.7860-01	.6310-01	.9600-01	.9130	.2825-02	.4295-02	.5320	3.687	552.5
145	191.25	.60000	673.00	.5140-01	.4170-01	.6200-01	.9130	.1866-02	.2773-02	.3680	2.363	543.6
145	191.25	.70000	674.00	.5820-01	.4670-01	.7110-01	.9130	.2091-02	.3179-02	.3940	2.670	552.5
145	191.25	.85000	676.00	.9560-01	.7650-01	.1173	.9130	.3421-02	.5249-02	.6330	3.985	555.7
145	191.25	.86000	677.00	.8570-01	.6830-01	.1055	.9130	.3058-02	.4719-02	.5600	3.559	557.7
145	191.25	.87000	678.00	.7560-01	.6010-01	.9350-01	.9130	.2689-02	.4185-02	.4850	3.107	560.4
145	191.25	.88000	679.00	.7890-01	.6250-01	.9800-01	.9130	.2794-02	.4386-02	.4960	3.211	563.2
145	191.25	.89000	680.00	.8540-01	.6730-01	.1065	.9130	.3012-02	.4766-02	.5280	3.461	565.6
145	191.25	.90000	681.00	.7820-01	.6150-01	.9800-01	.9130	.2750-02	.4386-02	.4750	3.169	568.0
145	191.25	.91000	682.00	.6230-01	.4910-01	.7780-01	.9130	.2195-02	.3482-02	.3830	2.764	566.4

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
145	191.25	.92600	683.00	.2840	.2188	.3645	.9130	.9788-02	.1631-01	1.578	11.36	579.6
145	191.25	.95000	684.00	.4750-01	.3870-01	.5720-01	.9130	.1730-02	.2557-02	.3440	2.495	541.6
145	197.00	.33000	685.00	.2370-01	.1930-01	.2850-01	.9130	.8619-03	.1274-02	.1720	1.158	541.4
145	197.00	.34000	686.00	.2590-01	.2110-01	.3120-01	.9130	.9419-03	.1395-02	.1870	1.259	542.4
145	197.00	.35000	687.00	.2610-01	.2120-01	.3140-01	.9130	.9487-03	.1405-02	.1880	1.268	542.4
145	197.00	.36000	688.00	.3210-01	.2600-01	.3870-01	.9130	.1165-02	.1731-02	.2290	1.543	543.9
145	197.00	.37000	689.00	.3050-01	.2470-01	.3690-01	.9130	.1106-02	.1650-02	.2160	1.454	545.3
145	197.00	.50000	691.00	.1237	.9730-01	.1549	.9130	.4352-02	.6931-02	.7540	5.013	567.6
147	197.00	.60000	692.00	.5450-01	.4400-01	.6610-01	.9130	.1970-02	.2959-02	.3800	2.449	547.9
147	197.00	.70000	693.00	.4990-01	.3940-01	.6230-01	.9130	.1762-02	.2789-02	.3080	2.070	565.8
147	197.00	.80000	694.00	.9200-02	.7400-02	.1130-01	.9130	.3304-03	.5070-03	.6100-01	.3820	555.8
147	197.00	.87000	695.00	.6410-01	.5060-01	.7990-01	.9130	.2264-02	.3574-02	.3980	2.515	564.9
147	197.00	.92600	696.00	.2312	.1775	.2979	.9130	.7943-02	.1333-01	1.267	9.113	581.3
147	209.80	.15000-01	697.00	.1672	.1372	.1993	.9132	.6138-02	.8915-02	1.272	8.781	536.1
146	209.80	.30000-01	698.00	.1374	.1103	.1458	.9384	.4939-02	.6526-02	.9270	6.287	552.5
146	209.80	.50000-01	699.00	.1803	.1445	.1959	.9339	.6468-02	.8768-02	1.207	7.645	553.5
146	209.80	.70000-01	700.00	.1661	.1317	.1874	.9282	.5894-02	.8389-02	1.053	7.065	561.5
146	209.80	.10000+00	701.00	.1075	.8660-01	.1248	.9214	.3875-02	.5587-02	.7360	4.685	550.1
146	209.80	.15000	702.00	.3960-01	.3220-01	.4740-01	.9142	.1439-02	.2124-02	.2640	2.034	542.9
146	209.80	.20000	703.00	.2070-01	.1690-01	.2480-01	.9130	.7550-03	.1111-02	.1520	1.014	539.3
146	209.80	.30000	704.00	.2130-01	.1730-01	.2560-01	.9130	.7731-03	.1148-02	.1530	1.083	542.8
146	209.80	.35000	705.00	.3390-01	.2740-01	.4110-01	.9130	.1227-02	.1839-02	.2370	1.624	546.7
146	209.80	.37500	706.00	.4130-01	.3330-01	.5030-01	.9130	.1491-02	.2249-02	.2850	1.953	549.1
146	209.80	.50000	707.00	.5100-01	.4110-01	.6230-01	.9130	.1839-02	.2777-02	.3510	2.398	549.4
146	209.80	.60000	708.00	.3220-01	.2620-01	.3880-01	.9130	.1173-02	.1735-02	.2330	1.491	541.3
146	209.80	.70000	709.00	.3790-01	.3070-01	.4590-01	.9130	.1375-02	.2055-02	.2680	1.707	545.5
146	209.80	.80000	710.00	.3390-01	.2750-01	.4100-01	.9130	.1229-02	.1837-02	.2390	1.491	545.5
146	209.80	.87000	711.00	.5920-01	.4760-01	.7220-01	.9130	.2130-02	.3230-02	.4020	2.538	551.1
146	209.80	.92600	712.00	.1084	.8660-01	.1333	.9130	.3877-02	.5966-02	.7130	5.160	556.2
146	217.70	.15000-01	713.00	.8110-01	.6590-01	.9770-01	.9130	.2951-02	.4372-02	.5850	4.038	541.9
146	217.70	.30000-01	714.00	.1404	.1126	.1489	.9385	.5039-02	.6666-02	.9410	6.379	553.4
146	217.70	.50000-01	715.00	.1904	.1525	.2069	.9340	.6826-02	.9261-02	1.269	8.245	554.2
146	217.70	.70000-01	716.00	.1778	.1396	.2016	.9283	.6250-02	.9024-02	1.078	7.281	567.6
146	217.70	.10000+00	717.00	.1120	.9010-01	.1302	.9214	.4031-02	.5827-02	.7600	4.920	551.5
146	217.70	.15000	718.00	.4270-01	.3470-01	.5130-01	.9142	.1551-02	.2295-02	.3040	2.226	544.2
146	217.70	.20000	719.00	.2240-01	.1830-01	.2690-01	.9130	.8177-03	.1202-02	.1650	1.114	538.8
146	217.70	.30000	720.00	.2230-01	.1810-01	.2690-01	.9130	.8098-03	.1202-02	.1600	1.145	542.9
146	217.70	.35000	721.00	.4230-01	.3420-01	.5140-01	.9130	.1530-02	.2301-02	.2940	2.038	547.8
146	217.70	.37500	722.00	.3950-01	.3190-01	.4810-01	.9130	.1427-02	.2153-02	.2730	1.888	549.0
146	217.70	.50000	723.00	.4610-01	.3740-01	.5580-01	.9130	.1673-02	.2498-02	.3260	2.256	545.1
146	217.70	.60000	724.00	.2610-01	.2130-01	.3140-01	.9130	.9524-03	.1404-02	.1910	1.222	540.0
146	217.70	.70000	725.00	.2920-01	.2380-01	.3530-01	.9130	.1063-02	.1579-02	.2100	1.335	542.9
145	217.70	.80000	726.00	.2260-01	.1830-01	.2730-01	.9130	.8193-03	.1221-02	.1600	1.008	544.5

IH41(AEDC V41A-A4A) O T S (CONFIG 1) TANK DATA (RV7F32)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
146	217.70	.87000	727.00	.3880-01	.3120-01	.4720-01	.9130	.1398-02	.2111-02	.2670	1.704	549.3
146	217.70	.92600	728.00	.8050-01	.6420-01	.9910-01	.9130	.2876-02	.4435-02	.5270	3.809	557.0

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = .0000 BETA = .0000 GRIT = 5.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
110	5.500	4.954	-.1000-01	.0000	.0000	177.5	.1910	743.0	105.4	4.040	2767.	.1519-03
111	5.500	4.945	.1000-01	.0000	.0000	177.5	.1910	744.0	105.5	4.040	2768.	.1517-03
112	5.500	4.938	.1000-01	.0000	.0000	177.5	.1910	744.0	105.6	4.039	2769.	.1516-03
113	5.500	4.963	.1000-01	.0000	.0000	177.7	.1910	742.0	105.3	4.044	2766.	.1522-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
110	.8484-07	.4473-01	.1366-01
111	.8494-07	.4474-01	.1367-01
112	.8500-07	.4474-01	.1368-01
113	.8479-07	.4475-01	.1365-01

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
111	.00000	.30000-02	730.00	.4434	.3478	.4110	.9643	.1556-01	.1839-01	2.685	18.21	571.2
111	.00000	.10300-01	731.00	.1127	.9230-01	.1349	.9130	.4128-02	.6036-02	.8450	5.843	539.1
111	.00000	.15000-01	732.00	.6810-01	.5600-01	.8120-01	.9130	.2505-02	.3633-02	.5220	3.572	535.4
111	.00000	.25000-01	734.00	.1333	.1070	.1278	.9588	.4786-02	.5716-02	.9010	6.099	555.6
111	.00000	.30000-01	735.00	.4048	.3129	.3885	.9571	.1400-01	.1738-01	2.292	15.43	580.1
111	.00000	.40000-01	737.00	.5032	.3913	.4876	.9556	.1751-01	.2181-01	2.929	18.82	576.5
111	.00000	.45000-01	738.00	.5401	.4194	.5285	.9538	.1876-01	.2364-01	3.121	20.35	577.4
111	.00000	.60000-01	739.00	.3535	.2736	.3563	.9487	.1224-01	.1594-01	2.015	13.33	579.2
111	.00000	.70000-01	740.00	.2814	.2502	.3301	.9454	.1119-01	.1477-01	1.878	12.51	576.0
111	.00000	.80000-01	741.00	.2723	.2125	.2848	.9422	.9507-02	.1274-01	1.609	11 54	574.5
111	.00000	.10000+00	743.00	.2230	.1854	.2501	.9363	.8204-02	.1119-01	1.457	9.638	556.2
111	.00000	.12500	743.00	.1262	.1007	.1441	.9297	.4507-02	.6449-02	.7830	5.623	570.1
111	.00000	.15000	744.00	.1235	.9760-01	.1412	.9240	.4367-02	.6318-02	.7990	5.519	560.7
111	.00000	.17500	745.00	.7520-01	.6050-01	.8830-01	.9194	.2707-02	.3951-02	.5160	3.863	553.3
111	.00000	.20000	746.00	.3960-01	.3200-01	.4700-01	.9159	.1439-02	.2104-02	.2850	2.041	545.6
111	.00000	.21500	747.00	.3660-01	.2970-01	.4350-01	.9143	.1327-02	.1953-02	.2640	1.831	544.9

(RV7F33)

IH41(AEDC V41A-A4A) O T S (CONFIG 3) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
111	.00000	.23000	748.00	.2950-01	.2400-01	.3550-01	.9133	.1075-02	.1587-02	.2150	1.591	543.8
111	.00000	.24000	749.00	.2240-01	.1830-01	.2690-01	.9130	.8188-03	.1204-02	.1660	1.251	541.6
111	.00000	.25000	750.00	.9700-02	.8000-02	.1170-01	.9130	.3560-03	.5213-03	.7300-01	.5900	539.8
111	.00000	.30000	751.00	.3360-01	.2750-01	.4020-01	.9130	.1231-02	.1798-02	.2520	1.664	538.6
111	.00000	.35000	752.00	.2930-01	.2400-01	.3500-01	.9130	.1074-02	.1568-02	.2210	1.400	538.4
111	.00000	.40000	753.00	.3380-01	.2760-01	.4040-01	.9130	.1237-02	.1809-02	.2530	1.634	539.2
111	.00000	.50000	754.00	.5260-01	.4280-01	.6330-01	.9130	.1915-02	.2832-02	.3830	2.509	543.8
111	.00000	.60000	755.00	.3620-01	.2950-01	.4370-01	.9130	.1318-02	.1953-02	.2620	1.682	544.9
111	.00000	.70000	756.00	.3590-01	.2920-01	.4330-01	.9130	.1304-02	.1936-02	.2590	1.709	545.5
111	.00000	.80000	757.00	.3470-01	.2830-01	.4180-01	.9130	.1265-02	.1871-02	.2530	1.589	543.8
111	.00000	.90000	758.00	.1590-01	.1300-01	.1910-01	.9130	.5829-03	.8541-03	.1190	.7710	540.0
111	55.000	.22000	759.00	.3380-01	.2760-01	.4040-01	.9139	.1233-02	.1806-02	.2490	1.858	541.8
111	55.000	.25000	760.00	.1270-01	.1040-01	.1520-01	.9130	.4656-03	.6788-03	.9600-01	.7550	537.7
111	55.000	.27000	761.00	.1150-01	.9400-02	.1380-01	.9130	.4216-03	.6168-03	.8600-01	.6440	539.2
111	55.000	.30000	762.00	.3050-01	.2500-01	.3630-01	.9130	.1120-02	.1622-02	.2340	1.417	534.7
111	55.000	.32000	763.00	.3850-01	.3170-01	.4600-01	.9130	.1416-02	.2056-02	.2940	1.751	535.9
111	55.000	.34000	764.00	.4250-01	.3480-01	.5080-01	.9130	.1557-02	.2273-02	.3200	1.906	538.4
111	55.000	.36000	765.00	.4730-01	.3870-01	.5660-01	.9130	.1734-02	.2534-02	.3550	2.144	539.0
111	55.000	.38000	766.00	.4340-01	.3560-01	.5200-01	.9130	.1591-02	.2325-02	.3260	1.990	538.8
111	55.000	.40000	767.00	.3770-01	.3100-01	.4500-01	.9130	.1386-02	.2014-02	.2870	1.805	536.5
111	67.500	.23000	768.00	.2680-01	.2190-01	.3210-01	.9133	.9796-03	.1437-02	.1990	1.481	541.1
111	67.500	.25000	769.00	.1330-01	.1090-01	.1590-01	.9130	.4884-03	.7121-03	.1010	.7860	537.8
111	67.500	.27000	770.00	.1620-01	.1320-01	.1930-01	.9130	.5913-03	.8647-03	.1210	.8860	539.1
111	67.500	.29000	771.00	.3660-01	.3000-01	.4390-01	.9130	.1340-02	.1963-02	.2730	1.700	539.8
111	67.500	.30000	772.00	.5130-01	.4190-01	.6140-01	.9130	.1875-02	.2747-02	.3830	2.347	539.8
111	67.500	.31000	773.00	.4980-01	.4070-01	.5970-01	.9130	.1820-02	.2671-02	.3700	2.250	540.6
111	67.500	.32000	774.00	.5210-01	.4260-01	.6240-01	.9130	.1905-02	.2794-02	.3870	2.337	540.4
111	67.500	.32500	775.00	.5200-01	.4250-01	.6240-01	.9130	.1904-02	.2790-02	.3880	2.345	540.1
111	67.500	.33000	776.00	.5530-01	.4520-01	.6630-01	.9130	.2023-02	.2968-02	.4120	2.496	540.4
111	67.500	.33500	777.00	.5650-01	.4620-01	.6770-01	.9130	.2068-02	.3027-02	.4220	2.562	539.6
111	67.500	.34000	778.00	.5730-01	.4680-01	.6860-01	.9130	.2095-02	.3069-02	.4270	2.592	539.8
111	67.500	.34500	779.00	.5520-01	.4510-01	.6610-01	.9130	.2020-02	.2959-02	.4120	2.504	539.9
111	67.500	.35000	780.00	.5170-01	.4230-01	.6180-01	.9130	.1892-02	.2767-02	.3870	2.362	539.2
111	67.500	.35500	781.00	.5940-01	.4860-01	.7110-01	.9130	.2172-02	.3180-02	.4440	2.713	539.6
111	67.500	.36000	782.00	.4810-01	.3930-01	.5750-01	.9130	.1759-02	.2574-02	.3590	2.198	539.4
111	67.500	.36500	783.00	.4710-01	.3860-01	.5640-01	.9130	.1726-02	.2523-02	.3540	2.161	538.7
111	67.500	.37000	784.00	.4410-01	.3620-01	.5270-01	.9130	.1618-02	.2359-02	.3330	2.047	537.7
111	67.500	.37500	785.00	.3930-01	.3220-01	.4700-01	.9130	.1440-02	.2104-02	.2950	1.828	538.6
111	67.500	.38000	786.00	.4060-01	.3330-01	.4850-01	.9130	.1489-02	.2172-02	.3060	1.902	538.0
111	67.500	.39000	787.00	.3540-01	.2900-01	.4220-01	.9130	.1296-02	.1890-02	.2670	1.664	537.7
111	67.500	.40000	788.00	.3270-01	.2680-01	.3900-01	.9130	.1201-02	.1745-02	.2490	1.564	536.4
113	67.500	.50000	789.00	.1500-01	.1220-01	.1790-01	.9130	.5472-03	.8013-03	.1120	.7180	539.8
113	67.500	.60000	790.00	.2700-01	.2200-01	.3250-01	.9130	.9852-03	.1442-02	.1980	1.303	542.6

IH41(AEDC V41A-A4A) O T S (CONFIG 3) TANK DATA (RV7F33)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
113	67.500	.70000	791.00	.2480-01	.2010-01	.2990-01	.9130	.9010-03	.1338-02	.1790	1.262	545.6
113	67.500	.80000	792.00	.1540-01	.1250-01	.1850-01	.9130	.5604-03	.8298-03	.1120	.7030	544.4
113	67.500	.90000	793.00	.4300-01	.3490-01	.5180-01	.9130	.1561-02	.2318-02	.3090	1.996	545.6
113	78.000	.27000	794.00	.1600-01	.1310-01	.1920-01	.9130	.5873-03	.8573-03	.1210	.8640	538.3
113	78.000	.29000	795.00	.6390-01	.5220-01	.7670-01	.9130	.2334-02	.3433-02	.4720	2.914	541.7
112	78.000	.30000	796.00	.7060-01	.5760-01	.8470-01	.9130	.2577-02	.3789-02	.5220	3.172	541.8
112	78.000	.31000	797.00	.6590-01	.5380-01	.7900-01	.9130	.2408-02	.3535-02	.4890	2.970	541.3
112	78.000	.32000	798.00	.6530-01	.5330-01	.7830-01	.9130	.2384-02	.3502-02	.4840	2.925	541.4
112	78.000	.32500	799.00	.6660-01	.5440-01	.7990-01	.9130	.2435-02	.3575-02	.4940	2.997	541.3
112	78.000	.33000	800.00	.7230-01	.5910-01	.8660-01	.9130	.2642-02	.3876-02	.5380	3.260	540.8
112	78.000	.33500	801.00	.8170-01	.6670-01	.9800-01	.9130	.2982-02	.4384-02	.6040	3.650	541.8
112	78.000	.34000	802.00	.8290-01	.6770-01	.9950-01	.9130	.3027-02	.4454-02	.6120	3.708	542.2
112	78.000	.34500	803.00	.8400-01	.6850-01	1008	.9130	.3068-02	.4508-02	.6220	3.779	541.6
112	78.000	.35000	804.00	.8300-01	.6780-01	.9960-01	.9130	.3032-02	.4454-02	.6150	3.737	541.5
112	78.000	.35500	805.00	.8220-01	.6710-01	.9860-01	.9130	.3002-02	.4410-02	.6090	3.701	541.5
112	78.000	.36000	806.00	.8745-01	.7170-01	.1052	.9130	.3564-02	.5217-02	.7280	4.442	539.9
112	78.000	.36500	807.00	.8220-01	.6710-01	.9850-01	.9130	.3003-02	.4405-02	.6110	3.736	540.8
112	78.000	.37000	808.00	.7940-01	.6490-01	.9520-01	.9130	.2924-02	.3986-02	.5580	3.420	539.7
112	78.000	.37500	809.00	.7260-01	.5930-01	.8700-01	.9130	.2669-02	.3804-02	.5460	3.352	539.6
112	78.000	.38000	810.00	.6810-01	.5560-01	.8160-01	.9130	.2511-02	.3373-02	.4750	2.932	538.7
112	78.000	.39000	811.00	.5210-01	.4260-01	.6250-01	.9130	.1921-02	.2806-02	.3940	2.440	539.0
112	78.000	.40000	812.00	.4260-01	.3480-01	.5110-01	.9130	.1568-02	.2290-02	.3210	1.991	536.6
113	90.000	.40000-01	988.00	.8240	.6730	.9880	.9560	.1848-01	.2281-01	3.213	20.67	568.8
113	90.000	.50000-01	986.00	.7470	.6104	.8953	.9521	.1617-01	.2022-01	2.873	18.41	564.8
113	90.000	.60000-01	987.00	.6715	.5488	.8055	.9488	.1264-01	.1641-01	2.102	13.63	576.3
113	90.000	.70000-01	988.00	.6201	.5068	.7390	.9463	.1118-01	.1513-01	1.933	12.82	574.1
113	90.000	.80000-01	989.00	.5845	.4777	.7008	.9429	.1003-01	.1358-01	1.719	12.03	571.0
113	90.000	.10000-00	990.00	.5264	.4302	.6298	.9363	.8343-02	.1128-01	1.514	9.809	561.0
113	90.000	.15000	991.00	.4170	.3408	.4963	.9240	.6557-02	.8548-02	1.223	5.224	556.0
113	90.000	.20000	992.00	.3470-01	.2870-01	.3910-01	.9132	.5193-02	.6745-02	.2443	1.778	540.1
112	90.000	.24000	814.00	.2960-01	.2420-01	.3310-01	.9130	.4483-03	.1390-02	.1930	1.555	540.7
112	90.000	.26000	815.00	.2710-01	.2210-01	.3020-01	.9130	.4118-03	.6932-03	.1060	.8080	539.7
112	90.000	.28000	816.00	.2480-01	.2020-01	.2760-01	.9130	.3760-03	.6352-02	.9840	5.475	552.6
112	90.000	.30000	817.00	.2270-01	.1850-01	.2530-01	.9130	.3564-02	.7007-02	.8580	5.220	557.0
112	90.000	.31000	818.00	.2180-01	.1770-01	.2420-01	.9130	.3307-02	.4762-02	.5350	3.856	545.0
112	90.000	.32000	819.00	.2090-01	.1700-01	.2320-01	.9130	.3169-02	.4409-02	.5990	3.630	543.6
112	90.000	.33000	820.00	.2010-01	.1630-01	.2220-01	.9130	.3052-02	.4986-02	.6730	4.064	544.5
112	90.000	.33500	821.00	.1970-01	.1600-01	.2180-01	.9130	.4717-02	.7015-02	.9330	5.639	545.6
112	90.000	.34000	822.00	.1930-01	.1570-01	.2130-01	.9130	.6579-02	.9366-02	1.254	7.572	553.8
112	90.000	.34500	823.00	.1890-01	.1540-01	.2090-01	.9130	.9956-02	.1564-01	1.775	10.60	556.0
112	90.000	.35000	824.00	.1850-01	.1510-01	.2040-01	.9130	.1509-01	.2311-01	2.136	12.66	537.1
112	90.000	.35500	825.00	.1810-01	.1480-01	.2000-01	.9130	.1630-01	.3195-01	2.154	12.61	612.1
112	90.000	.36000	826.00	.1770-01	.1450-01	.1960-01	.9130	.1654-01	.3160-01	2.276	13.32	607.5

IH41(AEDC V41A-A4A) O T S (CONFIG 3) TANK DATA (RV7F33)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
112	90.000	.36500	829.00	.4308	.3318	.5530	.9130	.1484-01	.2474-01	2.403	14.27	582.4
112	90.000	.37000	830.00	.2534	.2021	.3121	.9130	.9040-02	.1396-01	1.660	9.995	560.6
112	90.000	.37500	831.00	.1884	.1517	.2295	.9130	.6787-02	.1027-01	1.296	7.874	553.3
112	90.000	.38000	832.00	.1273	.1034	.1536	.9130	.4628-02	.6872-02	.9180	5.595	546.0
112	90.000	.39000	833.00	.7590-01	.6200-01	.9080-01	.9130	.2775-02	.4064-02	.5670	3.503	540.1
112	90.000	.40000	834.00	.4790-01	.3930-01	.5710-01	.9130	.1759-02	.2555-02	.3660	2.273	536.4
112	90.000	.50000	835.00	.2220-01	.1810-01	.2670-01	.9130	.8113-03	.1192-02	.1640	1.041	541.7
112	90.000	.60000	836.00	.2770-01	.2250-01	.3330-01	.9130	.1008-02	.1489-02	.2020	1.346	544.0
112	90.000	.70000	837.00	.4960-01	.4020-01	.5990-01	.9130	.1801-02	.2681-02	.3550	2.500	547.1
112	90.000	.80000	838.00	.5980-01	.4850-01	.7230-01	.9130	.2169-02	.3236-02	.4260	2.644	548.0
112	90.000	.90000	839.00	.2420-01	.1960-01	.2920-01	.9130	.8752-03	.1308-02	.1710	1.094	548.6
112	112.50	.23000	840.00	.3580-01	.2930-01	.4290-01	.9133	.1309-02	.1920-02	.2660	2.146	541.5
112	112.50	.25000	841.00	.2200-01	.1810-01	.2640-01	.9130	.8075-03	.1180-02	.1660	1.290	539.0
112	112.50	.30000	843.00	.4570-01	.3750-01	.5450-01	.9130	.1676-02	.2440-02	.3470	2.071	537.5
112	112.50	.33000	844.00	.4820-01	.3940-01	.5790-01	.9130	.1761-02	.2589-02	.3570	2.156	541.8
112	112.50	.35000	845.00	.6110-01	.5000-01	.7330-01	.9130	.2235-02	.3277-02	.4550	2.797	540.7
112	112.50	.37000	846.00	.5010-01	.4100-01	.5930-01	.9130	.1834-02	.2679-02	.3760	2.328	539.1
112	112.50	.40000	847.00	.3240-01	.2670-01	.3860-01	.9130	.1193-02	.1726-02	.2500	1.570	534.5
112	112.50	.45000	848.00	.1330-01	.1090-01	.1580-01	.9130	.4688-03	.7075-03	.1020	.6470	534.8
112	112.50	.50000	849.00	.2570-01	.2100-01	.3060-01	.9130	.9416-03	.1371-02	.1950	1.258	537.4
112	112.50	.55000	850.00	.1210-01	.1000-01	.1450-01	.9130	.4455-03	.6470-03	.9300-01	.6220	536.4
112	112.50	.60000	851.00	.2020-01	.1650-01	.2420-01	.9130	.7394-03	.1082-02	.1510	1.017	539.8
112	112.50	.65000	852.00	.3660-01	.2980-01	.4400-01	.9130	.1333-02	.1967-02	.2680	1.927	543.3
112	112.50	.70000	853.00	.5790-01	.4710-01	.6980-01	.9130	.2108-02	.3124-02	.4190	2.946	545.3
112	112.50	.75000	854.00	.3650-01	.2980-01	.4380-01	.9130	.1334-02	.1961-02	.2700	1.755	541.9
112	112.50	.80000	855.00	.5310-01	.4330-01	.6400-01	.9130	.1935-02	.2862-02	.3870	2.520	544.3
112	112.50	.90000	856.00	.5120-01	.4150-01	.6200-01	.9130	.1857-02	.2774-02	.3640	2.358	548.4
112	125.40	.84000	857.00	.4960-01	.4030-01	.5980-01	.9130	.1801-02	.2675-02	.3570	2.207	546.1
112	125.40	.85000	858.00	.5260-01	.4270-01	.6350-01	.9130	.1911-02	.2839-02	.3790	2.354	546.2
112	125.40	.86000	859.00	.4120-01	.3350-01	.4970-01	.9130	.1500-02	.2222-02	.2990	1.877	544.9
112	125.40	.87000	860.00	.4140-01	.3370-01	.4980-01	.9130	.1507-02	.2229-02	.3010	1.895	544.4
112	125.40	.88000	861.00	.4240-01	.3450-01	.5110-01	.9130	.1544-02	.2288-02	.3080	1.935	545.1
112	125.40	.89000	862.00	.5110-01	.4150-01	.6170-01	.9130	.1857-02	.2758-02	.3680	2.328	546.1
112	125.40	.90000	863.00	.5750-01	.4660-01	.6930-01	.9130	.2087-02	.3102-02	.4130	2.624	546.5
112	125.40	.91000	864.00	.7470-01	.6066-01	.9030-01	.9130	.2711-02	.4041-02	.5340	3.878	547.5
112	125.40	.92600	865.00	.1147	.9180-01	.1407	.9130	.4106-02	.6295-02	.7650	5.512	558.0
112	129.30	.80000	866.00	.5220-01	.4260-01	.6270-01	.9130	.1906-02	.2807-02	.3850	2.423	542.5
112	129.30	.81000	867.00	.3810-01	.3100-01	.4570-01	.9130	.1389-02	.2045-02	.2800	1.755	542.5
112	129.30	.82000	868.00	.3660-01	.2980-01	.4390-01	.9130	.1335-02	.1964-02	.2700	1.691	542.1
112	129.30	.83000	869.00	.4290-01	.3490-01	.5170-01	.9130	.1562-02	.2314-02	.3110	1.953	545.0
112	135.00	.40000-01	870.00	.5234	.4107	.5078	.9556	.1837-01	.2272-01	3.174	20.15	571.5
112	135.00	.50000-01	871.00	.4762	.3765	.4711	.9521	.1684-01	.2108-01	2.993	18.94	566.6
112	135.00	.60000-01	872.00	.3643	.2826	.3672	.9486	.1264-01	.1643-01	2.096	13.70	578.5

BEST AVAILABLE COPY

IH41(AEDC V41A-A4A) O T S (CONFIG 3) TANK DATA (RV7F33)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
112	135.00	.70000-01	873.00	.3370	.2627	.3462	.9453	.1175-01	.1549-01	1.984	13.30	575.5
112	135.00	.10000+00	875.00	.2357	.1877	.2534	.9363	.8399-02	.1134-01	1.537	10.01	561.3
112	135.00	.15000	876.00	.1300	.1041	.1493	.9240	.4659-02	.6680-02	.8710	6.339	557.4
112	135.00	.20000	877.00	.6000-01	.4880-01	.7110-01	.9158	.2183-02	.3183-02	.4360	2.939	544.8
112	135.00	.35000	878.00	.7910-01	.6440-01	.9500-01	.9130	.2883-02	.4250-02	.5800	3.613	543.0
112	135.00	.40000	879.00	.4560-01	.3730-01	.5440-01	.9130	.1670-02	.2434-02	.3450	2.193	538.0
112	135.00	.50000	880.00	.6390-01	.5210-01	.7690-01	.9130	.2329-02	.3441-02	.4670	3.209	543.9
112	135.00	.55000	881.00	.6340-01	.5160-01	.7650-01	.9130	.2307-02	.3422-02	.4580	3.055	545.6
112	135.00	.60000	882.00	.6800-01	.5510-01	.8220-01	.9130	.2465-02	.3678-02	.4840	3.253	547.9
112	135.00	.65000	883.00	.6780-01	.5500-01	.8210-01	.9130	.2460-02	.3671-02	.4830	3.292	548.0
112	135.00	.70000	884.00	.6610-01	.5370-01	.7970-01	.9130	.2402-02	.3565-02	.4770	3.393	545.7
112	135.00	.75000	885.00	.5520-01	.4500-01	.6630-01	.9130	.2013-02	.2966-02	.4060	2.561	542.8
112	135.00	.80000	886.00	.2680-01	.2190-01	.3210-01	.9130	.9781-03	.1437-02	.1980	1.249	541.6
113	135.00	.84000	887.00	.8480-01	.6850-01	.1027	.9130	.3066-02	.4596-02	.5960	3.742	549.8
113	135.00	.85000	888.00	.9590-01	.7750-01	.1164	.9130	.3466-02	.5209-02	.6690	4.236	549.4
113	135.00	.86000	889.00	.6640-01	.5380-01	.8010-01	.9130	.2410-02	.3587-02	.4740	3.000	545.6
113	135.00	.87000	890.00	.5690-01	.4620-01	.6870-01	.9130	.2069-02	.3074-02	.4090	2.601	544.9
113	135.00	.88000	891.00	.6580-01	.5340-01	.7950-01	.9130	.2390-02	.3559-02	.4700	3.006	545.8
113	135.00	.89000	892.00	.6630-01	.5370-01	.8010-01	.9130	.2403-02	.3586-02	.4710	3.062	546.6
113	135.00	.90000	893.00	.6190-01	.5020-01	.7480-01	.9130	.2245-02	.3348-02	.4400	2.896	546.5
113	135.00	.91000	894.00	.3050-01	.2480-01	.3690-01	.9130	.1108-02	.1652-02	.2170	1.586	546.3
113	135.00	.92600	895.00	.6930-01	.5560-01	.8480-01	.9130	.2489-02	.3793-02	.4680	3.389	554.5
113	135.00	.95000	896.00	.5090-01	.4140-01	.6140-01	.9130	.1851-02	.2748-02	.3660	2.646	544.7
113	142.30	.42000	897.00	.5240-01	.4270-01	.6290-01	.9130	.1910-02	.2815-02	.3840	2.476	541.4
113	142.30	.43500	898.00	.1072	.8630-01	.1309	.9130	.3961-02	.5853-02	.7330	4.566	552.7
113	142.30	.45000	899.00	.1200	.9650-01	.1463	.9130	.4319-02	.6549-02	.8200	5.347	552.7
113	142.30	.50000	900.00	.9630-01	.7750-01	.1174	.9130	.3469-02	.5255-02	.6590	4.378	552.4
113	142.30	.60000	901.00	.6430-01	.5210-01	.7770-01	.9130	.2332-02	.3479-02	.4570	3.036	546.5
113	142.30	.70000	902.00	.8090-01	.6540-01	.9820-01	.9130	.2925-02	.4394-02	.5650	3.851	549.3
113	142.30	.80000	903.00	.6200-01	.5040-01	.7460-01	.9130	.2257-02	.3339-02	.4500	2.863	543.2
113	142.30	.87000	904.00	.6240-01	.5050-01	.7550-01	.9130	.2261-02	.3379-02	.4410	2.787	547.3
113	154.96	.42000	905.00	.7040-01	.5710-01	.8500-01	.9130	.2557-02	.3804-02	.5040	3.250	545.5
113	154.98	.43500	906.00	.9420-01	.7610-01	.1143	.9130	.3406-02	.5116-02	.6580	4.263	549.2
113	154.98	.45000	907.00	.1009	.8150-01	.1224	.9130	.3647-02	.5477-02	.7050	4.594	549.2
113	154.98	.50000	908.00	.9280-01	.7460-01	.1134	.9130	.3338-02	.5075-02	.6300	4.490	553.8
113	154.98	.93500	913.00	.1656	.1291	.2095	.9130	.5778 02	.9375-02	.9730	6.977	574.1
113	154.98	.94500	914.00	.1663	.1307	.2082	.9130	.5850-02	.9318-02	1.015	7.227	569.0
113	157.50	.30000-01	919.00	.2917	.2299	.3045	.9422	.1029-01	.1363-01	1.802	12.17	567.3
113	157.50	.20000	922.00	.5910-01	.4810-01	.7010-01	.9158	.2150-02	.3138-02	.4270	2.849	543.8
113	157.50	.42000	923.00	.8180-01	.6640-01	.9890-01	.9130	.2970-02	.4425-02	.5830	3.807	546.1
113	157.50	.43500	924.00	.1205	.9560-01	.1476	9130	.4322-02	.6606-02	.8080	5.262	555.6
113	157.50	.45000	925.00	.1297	.1037	.1593	.9130	.4641-02	.7129-02	.8590	5.640	557.4
113	157.50	.85000	926.00	.3660-01	.2970-01	.4410-01	.9130	.1327-02	.1975-02	.2610	1.691	545.6

(RV7F33)

IH41(AEDC V41A-A4A) Q T S (CONFIG 3) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
113	157.50	.86000	927.00	.5420-01	.4400-01	.6550-01	.9130	.1969-02	.2931-02	.3870	2.514	545.7
113	157.50	.87000	928.00	.3310-01	.2670-01	.4010-01	.9130	.1197-02	.1794-02	.2320	1.511	548.3
113	157.50	.88000	929.00	.8180-01	.6590-01	.9970-01	.9130	.2949-02	.4461-02	.5620	3.666	552.0
113	157.50	.89000	930.00	.1089	.8730-01	.1332	.9130	.3907-02	.5962-02	.7320	4.801	555.0
113	157.50	.90000	931.00	.1063	.8510-01	.1303	.9130	.3807-02	.5833-02	.7080	4.749	556.5
113	157.50	.91000	932.00	.5390-01	.4300-01	.6630-01	.9130	.1922-02	.2969-02	.3520	2.562	559.2
113	157.50	.92600	933.00	.6330-01	.4990-01	.7900-01	.9130	.2242-02	.3536-02	.3910	2.821	567.4
113	163.12	.41500	934.00	.6320-01	.5150-01	.7590-01	.9130	.2305-02	.3395-02	.4640	3.017	541.3
113	163.12	.42000	935.00	.7470-01	.6070-01	.8990-01	.9130	.2717-02	.4025-02	.5400	3.537	543.8
113	163.12	.43000	937.00	.1199	.9620-01	.1467	.9130	.4307-02	.6564-02	.8090	5.289	554.6
113	163.12	.44000	938.00	.1922	.1511	.2408	.9130	.6761-02	.1078-01	1.172	7.583	569.1
113	163.12	.44500	939.00	.1797	.1413	.2249	.9130	.6325-02	.1007-01	1.099	7.220	568.7
113	163.12	.45000	940.00	.1699	.1342	.2116	.9130	.6005-02	.9568-02	1.060	6.975	565.9
113	163.12	.50000	941.00	.9900-01	.7960-01	.1209	.9130	.3560-02	.5410-02	.6730	4.547	553.6
113	163.12	.60000	942.00	.1053	.8480-01	.1281	.9130	.3797-02	.5732-02	.7260	4.673	551.2
113	163.12	.70000	943.00	.7030-01	.5710-01	.8500-01	.9130	.2554-02	.3802-02	.5020	3.452	545.7
113	163.12	.80000	944.00	.5730-01	.4660-01	.6920-01	.9130	.2084-02	.3096-02	.4120	2.688	544.9
113	168.00	.35000	945.00	.3240-01	.2650-01	.3870-01	.9130	.1185-02	.1732-02	.2420	1.543	538.0
113	168.00	.36000	946.00	.3340-01	.2730-01	.3990-01	.9130	.1223-02	.1785-02	.2510	1.603	537.3
113	168.00	.37000	947.00	.3660-01	.3000-01	.4380-01	.9130	.1340-02	.1959-02	.2740	1.755	538.0
113	168.00	.37500	948.00	.3830-01	.3130-01	.4580-01	.9130	.1401-02	.2051-02	.2860	1.828	538.7
113	168.00	.38500	950.00	.3860-01	.3170-01	.4620-01	.9130	.1417-02	.2066-02	.2910	1.887	536.9
113	168.00	.39000	951.00	.4470-01	.3660-01	.5350-01	.9130	.1638-02	.2396-02	.3340	2.178	538.4
113	168.00	.39500	952.00	.4780-01	.3910-01	.5720-01	.9130	.1748-02	.2561-02	.3560	2.283	539.0
113	168.00	.40000	953.00	.4690-01	.3830-01	.5620-01	.9130	.1715-02	.2515-02	.3480	2.274	539.4
113	168.00	.40500	954.00	.5220-01	.4260-01	.6260-01	.9130	.1907-02	.2799-02	.3870	2.531	539.8
113	168.00	.41000	955.00	.5330-01	.4350-01	.6400-01	.9130	.1945-02	.2862-02	.3920	2.566	540.9
113	168.00	.41500	956.00	.6710-01	.5470-01	.8070-01	.9130	.2447-02	.3613-02	.4900	3.214	542.3
113	168.00	.42000	957.00	.7990-01	.6490-01	.9630-01	.9130	.2905-02	.4309-02	.5760	3.786	544.2
113	168.00	.42500	958.00	.9390-01	.7600-01	.1137	.9130	.3401-02	.5087-02	.6630	4.349	547.5
113	168.00	.43000	959.00	.1424	.1132	.1760	.9130	.5066-02	.7875-02	.9180	5.961	561.4
113	168.00	.44000	960.00	.2035	.1594	.2559	.9130	.7133-02	.1145-01	1.221	7.918	571.2
113	168.00	.44500	961.00	.2004	.1583	.2497	.9130	.7083-02	.1117-01	1.250	8.124	566.0
113	168.00	.45000	962.00	.1756	.1393	.2176	.9130	.6234-02	.9740-02	1.119	7.325	563.0
113	168.00	.45500	963.00	.1652	.1307	.2055	.9130	.5847-02	.9196-02	1.037	6.785	565.1
113	168.00	.46000	964.00	.1585	.1247	.1984	.9130	.5579-02	.8881-02	.9690	6.366	568.7
113	168.00	.47000	965.00	.1449	.1148	.1798	.9130	.5137-02	.8047-02	.9180	6.060	563.9
113	168.00	.48000	966.00	.1138	.9080-01	.1400	.9130	.4065-02	.6267-02	.7470	4.993	558.6
113	168.00	.49000	967.00	.8960-01	.7250-01	.1087	.9130	.3243-02	.4865-02	.6280	4.217	548.8
113	168.00	.85000	968.00	.4750-01	.3850-01	.5750-01	.9130	.1722-02	.2574-02	.3360	2.180	547.3
113	168.00	.86000	969.00	.4580-01	.3700-01	.5570-01	.9130	.1656-02	.2493-02	.3180	2.068	550.1
113	168.00	.87000	970.00	.4270-01	.3440-01	.5190-01	.9130	.1538-02	.2325-02	.2930	1.909	551.7
113	168.00	.88000	971.00	.1104	.8840-01	.1354	.9130	.3958-02	.6057-02	.7380	4.804	556.1

DATE 03 JUN 78 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F33)

IH41(AEDC V41A-A4A) O T S (CONFIG 3) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
113	168.00	.89000	972.00	.1845	.1468	.2278	.9130	.6568-02	.1019-01	1.193	7.865	560.9
113	168.00	.90000	973.00	.1298	.1036	.1597	.9130	.4636-02	.7145-02	.8530	5.768	558.5
113	168.00	.91000	974.00	.6010-01	.4790-01	.7400-01	.9130	.2143-02	.3313-02	.3920	2.839	559.7
113	168.00	.92600	975.00	.5660-01	.4420-01	.7140-01	.9130	.1980-02	.3193-02	.3360	2.407	572.5
113	168.00	.95000	976.00	.5140-01	.4180-01	.6200-01	.9130	.1871-02	.2775-02	.3710	2.676	544.1
113	180.00	.20000-01	982.00	.1595	.1298	.1520	.9608	.5809-02	.6801-02	1.159	8.073	542.9
113	180.00	.25000-01	983.00	.3344	.2677	.3204	.9588	.1198-01	.1434-01	2.230	15.34	556.3
113	180.00	.30000-01	984.00	.6223	.4841	.5980	.9571	.2167-01	.2675-01	3.623	24.52	575.3
110	180.00	.40000-01	600.00	.5256	.4137	.5101	.9556	.1851-01	.2282-01	3.232	20.56	568.3
110	180.00	.50000-01	601.00	.4664	.3705	.4614	.9521	.1657-01	.2064-01	2.992	19.15	562.4
110	180.00	.60000-01	602.00	.3698	.2880	.3726	.9487	.1288-01	.1667-01	2.164	14.21	575.0
110	180.00	.70000-01	603.00	.3332	.2606	.3421	.9454	.1166-01	.1530-01	1.988	13.39	572.4
110	180.00	.80000-01	604.00	.3136	.2471	.3274	.9422	.1105-01	.1464-01	1.937	12.47	567.8
110	180.00	.10000+00	605.00	.2183	.1742	.2345	.9363	.7793-02	.1049-01	1.434	10.23	558.9
110	180.00	.15000	606.00	.1197	.9630-01	.1371	.9240	.4307-02	.6133-02	.8160	5.916	553.4
110	180.00	.20000	607.00	.5780-01	.4710-01	.6830-01	.9158	.2108-02	.3055-02	.4250	2.783	541 1
110	180.00	.21000	608.00	.4580-01	.3750-01	.5440-01	.9147	.1677-02	.2431-02	.3430	2.377	538.6
110	180.00	.22000	609.00	.3630-01	.2970-01	.4330-01	.9139	.1329-02	.1936-02	.2720	2.029	538.6
110	180.00	.30000	610.00	.4810-01	.3940-01	.5740-01	.9130	.1763-02	.2569-02	.3630	2.499	536.9
110	180.00	.35000	611.00	.3560-01	.2920-01	.4250-01	.9130	.1308-02	.1899-02	.2720	1.819	535.3
110	180.00	.36000	612.00	.4210-01	.3450-01	.5020 01	.9130	.1544-02	.2246-02	.3200	2.159	536.0
110	180.00	.37000	613.00	.4690-01	.3850-01	.5600-01	.9130	.1720-02	.2506-02	.3550	2.396	536.8
110	180.00	.37500	614.00	.4850-01	.3970-01	.5810-01	.9130	.1776-02	.2599-02	.3630	2.447	538.8
110	180.00	.38000	615.00	.4810-01	.3930-01	.5760-01	.9130	.1760-02	.2578-02	.3580	2.416	539.4
110	180.00	.38500	616.00	.5340-01	.4360-01	.6390-01	.9130	.1952-02	.2860-02	.3970	2.680	539.4
110	180.00	.39000	617.00	.5890-01	.4810-01	.7060-01	.9130	.2153-02	.3159-02	.4370	2.937	540.0
110	180.00	.39500	618.00	.6170-01	.5030-01	.7400-01	.9130	.2252-02	.3309-02	.4560	3.080	540.7
110	180.00	.40000	619.00	.6570-01	.5360-01	.7900-01	.9130	.2396-02	.3534-02	.4810	3.230	542.3
110	180.00	.40500	620.00	.7130-01	.5790-01	.8600-01	.9130	.2589-02	.3845-02	.5120	3.448	545.0
110	180.00	.41000	621.00	.7440-01	.6060-01	.8950-01	.9130	.2709-02	.4004-02	.5410	3.645	543.1
110	180.00	.41500	622.00	.9410-01	.7640-01	.1136	.9130	.3416-02	.5084-02	.6730	4.510	546.0
110	180.00	.42500	624.00	.1217	.9790-01	.1482	.9130	.4381-02	.6630-02	.8350	5.579	552.4
110	180.00	.43000	625.00	.1502	.1197	.1851	.9130	.5354-02	.8281-02	.9790	6.535	560.1
110	180.00	.44000	626.00	.2535	.1950	.3259	.9130	.8723-02	.1458-01	1.404	9.272	582.0
110	180.00	.44500	627.00	.2793	.2123	.3645	.9130	.9497-02	.1630-01	1.470	9.768	588.1
110	180.00	.45000	628.00	.2582	.1973	.3345	.9130	.8828-02	.1496-01	1.391	9.258	585.3
110	180.00	.45500	629.00	.2124	.1656	.2685	.9130	.7408-02	.1201-01	1.249	8.485	574.3
110	180.00	.46000	630.00	.1720	.1363	.2135	.9130	.6095-02	.9550-02	1.089	7.254	564.3
110	180.00	.47000	631.00	.1077	.8700-01	.1308	.9130	.3891-02	.5853-02	.7500	5.034	550.1
110	180.00	.48000	632.00	.5250-01	.4280-01	.6320-01	.9130	.1914-02	.2828-02	.3830	2.592	543.1
110	180.00	.49000	633.00	.5510-01	.4580-01	.6620-01	.9130	.2012-02	.2982-02	.4050	2.773	541.5
110	180.00	.50000	634.00	.1002	.8090-01	.1217	.9130	.3619-02	.5445-02	.6980	4.873	550.2
110	180.00	.55000	635.00	.1164	.9550-01	.1421	.9130	.4181-02	.6358-02	.7890	5.222	554.2

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F33)

IH41(AEDC V41A-A4A) O T S (CONFIG 3) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TH DEG. R
110	180.00	.60000	636.00	.1210	.9740-01	.1475	.9130	.4357-02	.6598-02	.8290	5.331	552.7
110	180.00	.65000	637.00	.1229	.9910-01	.1493	.9130	.4434-02	.6681-02	.8520	5.502	550.7
110	180.00	.70000	638.00	.8990-01	.7310-01	.1084	.9130	.3271-02	.4849-02	.6500	4.452	544.4
110	180.00	.75000	639.00	.6290-01	.5150-01	.7530-01	.9130	.2305-02	.3367-02	.4730	3.061	538.0
110	180.00	.80000	640.00	.6210-01	.5080-01	.7430-01	.9130	.2271-02	.3324-02	.4630	2.915	538.9
110	180.00	.85000	641.00	.5590-01	.4550-01	.6710-01	.9130	.2038-02	.3001-02	.4100	2.600	541.6
110	180.00	.86000	642.00	.5710-01	.4650-01	.6870-01	.9130	.2080-02	.3071-02	.4160	2.676	542.7
110	180.00	.87000	643.00	.5140-01	.4170-01	.6200-01	.9130	.1866-02	.2773-02	.3690	2.380	545.3
110	180.00	.88000	644.00	.9230-01	.7450-01	.1120	.9130	.3332-02	.5011-02	.6430	4.176	550.0
110	180.00	.89000	645.00	.1430	.1151	.1743	.9130	.5150-02	.7796-02	.9810	6.437	552.5
110	180.00	.90000	646.00	.1207	.9750-01	.1466	.9130	.4360-02	.6557-02	.8410	5.641	550.1
110	180.00	.92600	648.00	.5110-01	.4020-01	.6380-01	.9130	.1798-02	.2854-02	.3140	2.266	568.3
110	191.25	.35000	650.00	.3670-01	.3010-01	.4380-01	.9130	.1345-02	.1957-02	.2780	1.877	536.4
110	191.25	.36000	651.00	.4390-01	.3600-01	.5240-01	.9130	.1612-02	.2344-02	.3340	2.261	535.0
110	191.25	.37000	652.00	.4340-01	.3560-01	.5170-01	.9130	.1594-02	.2315-02	.3310	2.239	535.2
110	191.25	.37500	653.00	.4790-01	.3930-01	.5720-01	.9130	.1757-02	.2560-02	.3620	2.453	536.9
110	191.25	.38000	654.00	.4810-01	.3940-01	.5740-01	.9130	.1763-02	.2566-02	.3640	2.470	536.3
110	191.25	.38500	655.00	.4940-01	.4050-01	.5910-01	.9130	.1812-02	.2644-02	.3720	2.519	537.7
110	191.25	.39000	656.00	.5230-01	.4280-01	.6260-01	.9130	.1913-02	.2799-02	.3910	2.647	538.6
110	191.25	.39500	657.00	.5570-01	.4560-01	.6660-01	.9130	.2038-02	.2980-02	.4170	2.823	538.4
110	191.25	.40000	658.00	.5650-01	.4630-01	.6760-01	.9130	.2069-02	.3025-02	.4230	2.876	538.3
110	191.25	.40500	659.00	.5510-01	.4510-01	.6590-01	.9130	.2019-02	.2947-02	.4140	2.814	537.7
110	191.25	.41000	660.00	.5420-01	.4440-01	.6470-01	.9130	.1986-02	.2896-02	.4090	2.768	537.3
110	191.25	.41500	661.00	.5770-01	.4740-01	.6890-01	.9130	.2118-02	.3080-02	.4380	2.963	536.0
110	191.25	.42000	662.00	.7270-01	.5940-01	.8710-01	.9130	.2659-02	.3898-02	.5410	3.657	539.7
110	191.25	.42500	663.00	.9180-01	.7480-01	.1103	.9130	.3348-02	.4934-02	.6730	4.562	541.9
110	191.25	.43000	664.00	.1392	.1115	.1705	.9130	.4986-02	.7628-02	.9300	6.319	556.3
110	191.25	.44000	665.00	.2072	.1625	.2601	.9130	.7268-02	.1163-01	1.252	8.389	570.7
110	191.25	.45000	666.00	.1844	.1464	.2283	.9130	.6550-02	.1021-01	1.181	7.945	562.7
110	191.25	.45500	667.00	.1671	.1328	.2067	.9130	.5939-02	.9248-02	1.073	7.222	562.3
110	191.25	.46000	668.00	.1586	.1258	.1966	.9130	.5628-02	.8796-02	1.010	6.814	563.5
110	191.25	.47000	669.00	.1410	.1125	.1737	.9130	.5032-02	.7770-02	.9230	6.258	559.5
110	191.25	.48000	670.00	.1558	.1245	.1914	.9130	.5570-02	.8561-02	1.030	6.991	558.0
110	191.25	.49000	671.00	.1452	.1162	.1782	.9130	.5197-02	.7973-02	.9650	6.529	557.3
110	191.25	.50000	672.00	.1435	.1150	.1758	.9130	.5146-02	.7864-02	.9620	6.659	556.0
110	191.25	.60000	673.00	.7760-01	.6330-01	.9330-01	.9130	.2831-02	.4174-02	.5690	3.656	542.0
110	191.25	.70000	674.00	.1048	.8470-01	.1272	.9130	.3790-02	.5689-02	.7340	4.988	549.3
110	191.25	.85000	676.00	.6810-01	.5560-01	.8170-01	.9130	.2487-02	.3656-02	.5030	3.190	540.7
110	191.25	.86000	677.00	.5010-01	.4090-01	.6010-01	.9130	.1830-02	.2688-02	.3710	2.378	540.4
110	191.25	.87000	678.00	.3760-01	.3060-01	.4510-01	.9130	.1370-02	.2018-02	.2760	1.785	540.5
110	191.25	.88000	679.00	.6420-01	.5220-01	.7740-01	.9130	.2335-02	.3463-02	.4640	3.028	544.5
110	191.25	.89000	680.00	.8970-01	.7260-01	.1086	.9130	.3249-02	.4856-02	.6340	4.198	547.7
110	191.25	.90000	681.00	.8510-01	.6870-01	.1034	.9130	.3072-02	.4624-02	.5920	3.983	550.3

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F33)

(IH41(AEDC V41A-A4A) O T S (CONFIG 3) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
110	191.25	.91000	682.00	.4960-01	.4010-01	.6030-01	.9130	.1793-02	.2696-02	.3460	2.520	550.0
110	191.25	.92600	683.00	.7730-01	.6110-01	.9640-01	.9130	.2731-02	.4311-02	.4820	3.491	566.6
110	191.25	.95000	684.00	.4550-01	.3720-01	.5440-01	.9130	.1665-02	.2433-02	.3410	2.472	538.2
110	197.00	.33000	685.00	.3390-01	.2780-01	.4040-01	.9130	.1245-02	.1806-02	.2590	1.753	534.7
110	197.00	.34000	686.00	.4110-01	.3370-01	.4890-01	.9130	.1509-02	.2189-02	.3140	2.122	534.9
110	197.00	.35000	687.00	.4080-01	.3350-01	.4870-01	.9130	.1497-02	.2179-02	.3090	2.091	536.3
110	197.00	.36000	688.00	.4660-01	.3820-01	.5570-01	.9130	.1708-02	.2493-02	.3510	2.368	537.6
110	197.00	.37000	689.00	.4980-01	.4080-01	.5960-01	.9130	.1825-02	.2666-02	.3740	2.525	538.0
110	197.00	.50000	691.00	.1812	.1415	.2286	.9130	.6328-02	.1023-01	1.073	7.115	573.4
110	197.00	.60000	692.00	.7600-01	.6190-01	.9140-01	.9130	.2770-02	.4087-02	.5550	3.589	542.4
110	197.00	.70000	693.00	.1314	.1042	.1628	.9130	.4661-02	.7281-02	.8370	5.632	563.3
110	197.00	.80000	694.00	.4480-01	.3680-01	.5350-01	.9130	.1645-02	.2393-02	.3400	2.148	536.3
110	197.00	.87000	695.00	.4650-01	.3790-01	.5580-01	.9130	.1695-02	.2497-02	.3410	2.178	541.8
110	197.00	.92600	696.00	.8420-01	.6630-01	.1053	.9130	.2967-02	.4709-02	.5190	3.755	568.2
110	209.80	.15000-01	697.00	.1649	.1349	.1974	.9130	.6032-02	.8830-02	1.231	8.483	539.0
111	209.80	.30000-01	698.00	.5735	.4477	.5515	.9571	.2003-01	.2467-01	3.395	22.79	574.3
111	209.80	.50000-01	699.00	.4661	.3699	.4612	.9521	.1655-01	.2063-01	2.982	18.79	563.6
111	209.80	.70000-01	700.00	.4042	.3112	.4157	.9453	.1393-01	.1860-01	2.252	14.97	582.0
111	209.80	.10000+00	701.00	.2653	.2091	.2864	.9363	.9357-02	.1281-01	1.644	10.37	568.1
111	209.80	.15000	702.00	.1202	.9610-01	.1382	.9240	.4298-02	.6184-02	.7970	5.566	553.4
111	209.80	.20000	703.00	.5800-01	.4710-01	.6880-01	.9158	.2109-02	.3079-02	.4190	2.795	544.9
111	209.80	.30000	704.00	.3680-01	.3020-01	.4400-01	.9130	.1350-02	.1970-02	.2780	1.977	538.1
111	209.80	.35000	705.00	.4130-01	.3380-01	.4930-01	.9130	.1513-02	.2205-02	.3120	2.144	537.7
111	209.80	.37500	706.00	.4870-01	.3980-01	.5830-01	.9130	.1781-02	.2608-02	.3630	2.504	539.8
111	209.80	.50000	707.00	.1265	.1013	.1552	.9130	.4531-02	.6945-02	.8430	5.741	557.6
111	209.80	.60000	708.00	.9030-01	.7290-01	.1095	.9130	.3263-02	.4901-02	.6320	4.022	550.1
111	209.80	.70000	709.00	.9510-01	.7680-01	.1153	.9130	.3438-02	.5159-02	.6670	4.246	549.8
111	209.80	.80000	710.00	.3810-01	.3120-01	.4560-01	.9130	.1395-02	.2039-02	.2860	1.791	538.7
111	209.80	.87000	711.00	.4130-01	.3370-01	.4960-01	.9130	.1506-02	.2220-02	.3030	1.917	542.7
111	209.80	.92600	712.00	.2560-01	.2040-01	.3170-01	.9130	.9130-03	.1417-02	.1660	1.199	561.8
111	217.70	.15000-01	713.00	.1844	.1499	.2222	.9130	.6708-02	.9941-02	1.334	9.200	544.9
111	217.70	.30000-01	714.00	.5531	.4335	.5322	.9571	.1940-01	.2381-01	3.337	22.42	571.8
111	217.70	.50000-01	715.00	.4292	.3418	.4248	.9521	.1529-01	.1900-01	2.791	18.08	561.2
111	217.70	.70000-01	716.00	.3951	.3039	.4065	.9453	.1360-01	.1819-01	2.190	14.69	582.7
111	217.70	.10000+00	717.00	.2215	.1768	.2381	.9363	.7911-02	.1065-01	1.458	9.395	559.5
111	217.70	.15000	718.00	.1243	.9900-01	.1434	.9240	.4430-02	.6415-02	8100	5.883	561.0
111	217.70	.20000	719.00	.6480-01	.5270-01	.7680-01	.9158	.2360-02	.3437-02	.4710	3.183	544.0
111	217.70	.30000	720.00	.3880-01	.3180-01	.4630-01	.9130	.1421-02	.2072-02	.2920	2.100	538.1
111	217.70	.35000	721.00	.4370-01	.3590-01	.5220-01	.9130	.1605-02	.2335-02	.3320	2.311	537.0
111	217.70	.37500	722.00	.4390-01	.3610-01	.5240-01	.9130	.1613-02	.2346-02	.3340	2.326	536.7
111	217.70	.50000	723.00	.1128	.9120-01	.1367	.9130	.4081-02	.5817-02	.7930	5.474	549.4
111	217.70	.60000	724.00	.7940-01	.6460-01	.9580-01	.9130	.2889-02	.4265-02	.5740	3.671	545.2
111	217.70	.70000	725.00	.5810-01	.4750-01	.6980-01	.9130	.2123-02	.3121-02	.4300	2.739	541.4

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F33)

IH41(AEDC V41A-A4A) O T S (CONFIG 3) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
111	217.70	.80000	726.00	.3690-01	.3020-01	.4410-01	.9130	.1351-02	.1972-02	.2780	1.754	538.1
111	217.70	.87000	727.00	.5810-01	.4720-01	.7010-01	.9130	.2112-02	.3135-02	.4190	2.678	545.5
111	217.70	.92600	728.00	.5240-01	.4210-01	.6410-01	.9130	.1883-02	.2869-02	.3550	2.568	555.4

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = .0000 BETA = .0000 GRIT = 5.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
206	5.500	4.997	.0000	.0000	.0000	177.9	.1910	740.0	104.9	4.049	2761.	.1529-03
207	5.500	5.025	-.2000 01	.0000	.0000	178.1	.1910	737.0	104.6	4.053	2755.	.1535-03
208	5.500	5.001	-.2000-01	.0000	.0000	177.9	.1910	739.0	104.8	4.048	2760.	.1530-03
209	5.500	4.994	.2000-01	.0000	.0000	178.2	.1910	741.0	105.1	4.055	2762.	.1529-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
206	.8448-07	.4476-01	.1361-01
207	.8422-07	.4476-01	.1357-01
208	.8441-07	4474-01	.1360-01
209	.8458-07	.4479-01	.1361-01

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
207	.00000	.30000-02	730.00	.2589	.1788	.2236	.9843	.8005-02	.1028-01	.9540	6.324	613.3
207	.00000	.10300-01	731.00	.2324	.1782	.2987	.9130	.7978-02	.1341-01	1.263	8.560	579.1
207	.00000	.15000-01	732.00	.2499	.1937	.3179	.9130	.9572-02	.1422-01	1.426	9.572	573.1
207	.00000	.20000-01	733.00	.1658	.1255	.1556	.9503	.5617-02	.6976-02	.8350	5.612	633.8
207	.00000	.40000-01	737.00	.2731	.2575	.3713	.9556	.1787-01	.1662-01	1.231	7.709	630.6
207	.00000	.60000-01	738.00	.2787	.2754	.3039	.9530	.1338-01	.1790-01	1.319	8.838	629.7
207	.00000	.80000-01	739.00	.2772	.2809	.3212	.9495	.1349-01	.1437-01	1.199	7.788	608.1
207	.00000	.10000-00	740.00	.2760	.2789	.3179	.9448	.9737-02	.1423-01	1.288	9.326	607.9
207	.00000	.12000-00	741.00	.2852	.1804	.2774	.8422	.8476-02	.1233-01	1.158	8.194	600.9
207	.00000	.14000-00	742.00	.2819	.1773	.2605	.9362	.9040-02	.1157-01	1.235	9.150	583.3
207	.00000	.16000-00	743.00	.2758	.1758	.2610	.9295	.9381-02	.8882-02	.9870	7.155	611.9
207	.00000	.18000-00	744.00	.2687	.1358	.1910	.9240	.4641-02	.5771-02	.8270	5.711	559.3
207	.00000	.19000-00	744.00	.2687	.1027	.1543	.9240	.3483-02	.4440-02	.6830	4.824	611.2
207	.00000	.19500-00	745.00	.2[illegible]	.6780-01	.1020-01	.9189	.2283-02	.2872-02	.3762	2.611	644.5
207	.00000	.20000-00	746.00	.2[illegible]	.4361-01	.6[illegible]-01	.9189	.1484-02	.1869-02	.2483	1.686	644.5
207	.00000	.20500-00	747.00	.1[illegible]	.3071-01	.4[illegible]-01	.9189	.1045-02	.1316-02	.1753	.952	644.5
207	.00000	.21000-00	748.00	.1[illegible]	.2[illegible]-01	.3[illegible]-01	.9133	.[illegible]-02	.[illegible]-02	.[illegible]	[illegible]	[illegible]
207	.00000	.23000	749.00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F34)

(IH41(AEDC V41A-A4A) O T S (CONFIG 3) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
207	.00000	.24000	749.00	.2400-01	.1940-01	.2900-01	.9130	.8678-03	.1300-02	.1670	1.265	544.5
207	.00000	.25000	750.00	.1080-01	.8700-02	.1310-01	.9130	.3915-03	.5866-03	.7600-01	.6120	544.6
207	.00000	.30000	751.00	.2740-01	.2230-01	.3300-01	.9130	.9988-03	.1478-02	.1980	1.302	539.6
207	.00000	.40000	753.00	.3690-01	.3000-01	.4450-01	.9130	.1343-02	.1994-02	.2640	1.703	540.9
207	.00000	.50000	754.00	.5050-01	.4060-01	.6150-01	.9130	.1819-02	.2754-02	.3440	2.246	548.5
207	.00000	.60000	755.00	.3810-01	.3030-01	.4640-01	.9130	.1371-02	.2079-02	.2580	1.653	549.1
207	.00000	.70000	756.00	.3740-01	.3000-01	.4590-01	.9130	.1341-02	.2054-02	.2480	1.633	552.5
207	.00000	.80000	757.00	.3710-01	.2970-01	.4540-01	.9130	.1331-02	.2032-02	.2470	1.546	551.6
207	.00000	.90000	758.00	.1570-01	.1260-01	.1920-01	.9130	.5631-03	.8613-03	.1040	.6730	552.1
207	55.000	.22000	759.00	.3650-01	.2950-01	.4420-01	.9139	.1319-02	.1978-02	.2510	1.371	546.9
207	55.000	.25000	760.00	.1000-01	.8100-02	.1220-01	.9130	.3636-03	.5452-03	.7000-01	.5490	544.9
207	55.000	.27000	761.00	.1121-01	.9000-02	.1360-01	.9130	.4046-03	.6085-03	.7700-01	.5770	546.0
207	55.000	.30000	762.00	.3300-01	.2680-01	.3990-01	.9130	.1201-02	.1785-02	.2360	1.421	541.3
207	55.000	.32000	763.00	.3650-01	.2960-01	.4410-01	.9130	.1326-02	.1974-02	.2590	1.538	542.0
207	55.000	.34000	764.00	.4820-01	.3900-01	.5840-01	.9130	.1748-02	.2614-02	.3380	2.011	543.8
207	55.000	.36000	765.00	.5420-01	.4380-01	.6560-01	.9130	.1962-02	.2934-02	.3800	2.289	543.7
207	55.000	.40000	767.00	.4400-01	.3580-01	.5310-01	.9130	.1601-02	.2375-02	.3150	1.977	540.6
207	57.500	.23000	768.00	.3400-01	.2740-01	.4140-01	.9133	.1227-02	.1852-02	.2330	1.732	547.8
207	67.500	.25000	769.00	.1090-01	.8800-02	.1320-01	.9130	.3928-03	.5897-03	.7500-01	.5880	545.3
207	67.500	.27000	770.00	.1440-01	.1160-01	.1750-01	.9130	.5190-03	.7822-03	.9900-01	.7220	546.8
207	67.500	.29000	771.00	.4360-01	.4320-01	.6530-01	.9130	.1933-02	.2921-02	.3660	2.270	547.9
207	67.500	.30000	772.00	.5550-01	.4480-01	.6750-01	.9130	.2004-02	.3023-02	.3820	2.331	547.1
207	67.500	.31000	773.00	.5120-01	.4130-01	.6230-01	.9130	.1849-02	.2787-02	.3520	2.136	546.9
207	67.500	.32000	774.00	.4970-01	.4010-01	.6030-01	.9130	.1797-02	.2700-02	.3450	2.074	545.7
207	67.500	.32500	775.00	.4780-01	.3870-01	.5800-01	.9130	.1731-02	.2594-02	.3340	2.015	544.5
207	67.500	.33000	776.00	.4950-01	.4010-01	.6000-01	.9130	.1794-02	.2685-02	.3470	2.100	544.1
207	67.500	.33500	777.00	.4990-01	.4040-01	.6030-01	.9130	.1807-02	.2701-02	.3500	2.122	543.8
207	67.500	.34000	778.00	.4930-01	.3990-01	.5960-01	.9130	.1787-02	.2669-02	.3470	2.102	543.8
207	67.500	.34500	779.00	.4980-01	.4030-01	.6020-01	.9130	.1805-02	.2695-02	.3510	2.129	543.2
207	67.500	.35000	780.00	.4630-01	.3750-01	.5590-01	.9130	.1678-02	.2504-02	.3270	1.989	542.9
207	67.500	.36000	782.00	.4460-01	.3600-01	.5370-01	.9130	.1613-02	.2402-02	.3150	1.923	542.3
207	67.500	.37000	783.00	.4180-01	.3380-01	.5050-01	.9130	.1519-02	.2258-02	.2980	1.814	541.5
207	67.500	.38000	784.00	.3980-01	.3230-01	.4800-01	.9130	.1446-02	.2147-02	.2840	1.741	541.0
207	67.500	.37500	785.00	.3380-01	.2750-01	.4080-01	.9130	.1231-02	.1826-02	.2420	1.497	540.7
207	67.500	.38000	786.00	.3510-01	.2850-01	.4230-01	.9130	.1277-02	.1894-02	.2520	1.560	540.5
207	67.500	.38500	787.00	.3160-01	.2570-01	.3810-01	.9130	.1151-02	.1703-02	.2270	1.415	539.8
207	67.500	.39000	788.00	.2700-01	.2200-01	.3250-01	.9130	.9844-03	.1457-02	.1950	1.221	539.6
207	67.500	.40000	789.00	.1599-01	.1280-01	.1940-01	.9130	.5728-03	.8662-03	.1080	.6950	548.1
207	67.500	.50000	790.00	.3000-01	.2410-01	.3660-01	.9130	.1078-02	.1640-02	.2020	1.322	550.3
207	67.500	.60000	791.00	.2420-01	.1920-01	.2980-01	.9130	.8614-03	.1333-02	.1560	1.098	556.1
207	67.500	.70000	792.00	.2000-01	.1600-01	.2450-01	.9130	.7143-03	.1098-02	.1310	.8210	554.0
207	67.500	.80000	793.00	.4160-01	.3300-01	.5140-01	.9130	.1478-02	.2301-02	.2650	1.700	558.1
207	67.500	.90000	794.00	.2620-01	.2130-01	.3130-01	.9133	.9561-03	.1404-02	.1930	1.381	541.1
207	78.000	.27000										

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F34)

IH41(AEDC V41A-A4A) O T S (CONFIG 3) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
207	78.000	.29000	795.00	.5220-01	.4200-01	.6330-01	.9141	.1881-02	.2834-02	.3570	2.194	553.2
208	78.000	.30000	796.00	.7520-01	.6060-01	.9150-01	.9130	.2712-02	.4093-02	.5170	3.130	548.6
208	78.000	.31000	797.00	.6500-01	.5250-01	.7890-01	.9130	.2349-02	.3530-02	.4520	2.737	546.9
208	78.000	.32000	798.00	.5940-01	.4720-01	.7080-01	.9130	.2114-02	.3167-02	.4090	2.465	545.9
208	78.000	.32500	799.00	.5650-01	.4580-01	.6840-01	.9130	.2048-02	.3061-02	.3980	2.407	545.0
208	78.000	.33000	800.00	.6150-01	.5000-01	.7420-01	.9130	.2239-02	.3318-02	.4430	2.685	541.4
208	78.000	.33500	801 00	.5930-01	.4810-01	.7180-01	.9130	.2161-02	.3211-02	.4190	2.537	544.3
208	78.000	.34000	802.00	.6610-01	.5350-01	.8010-01	.9130	.2396-02	.3583-02	.4650	2 822	545.2
208	78.000	.34500	803.00	.7460-01	.6040-01	.9030-01	.9130	.2703-02	.4041-02	.5250	3.186	544.9
208	78.000	.35000	804.00	.8430-01	.6810-01	.1023	.9130	.3049-02	.4579-02	.5870	3.557	546.7
208	78.000	.35500	805.00	.9250-01	.7500-01	.1122	.9130	.3354-02	.5021-02	.6430	3.842	545.4
208	78.000	.36000	806.00	.9270-01	.7500-01	.1122	.9130	.3356-02	.5021-02	.6510	3.959	545.3
208	78.000	.36500	807.00	.8150-01	.6500-01	.9870-01	.9130	.2950-02	.4416-02	.5710	3.485	545.5
208	78.000	.37000	808.00	.6840-01	.5070-01	.7630-01	.9130	.2387-02	.3573-02	.4450	2.729	543.0
208	78.000	.37500	809.00	.6340-01	.4340-01	.6660-01	.9130	.1940-02	.2880-02	.3930	2.344	542.0
208	78.000	.38000	810.00	.6110-01	.4240-01	.6510-01	.9130	.1539-02	.2278-02	.3060	1.850	541.0
208	78.000	.38500	811.00	.5910-01	.4090-01	.6290-01	.9130	.1887-02	.1871-02	.2520	1.572	540.1
208	78.000	.39000	812.00	.5710-01	.3940-01	.6080-01	.9130	.1510-02	.5648-02	.6950	4.100	551.8
208	78.000	.39500	813.00	.5510-01	.3800-01	.5870-01	.9130	.1353-01	.1875-01	1.605	10.68	620.6
208	78.000	.40000	814.00	.5308	.3691	.5656	.9130	.1382-01	.1867-01	1.598	8.899	619.9
208	78.000	.40500	815.00	.5108	.3585	.5521	.9130	.1095-01	.1507-01	1.288	8.874	611.1
209	80.000	.41000	816.00	.4944	.3588	.5495	.9130	.9476-02	.1342-01	1.148	6.825	602.7
209	80.000	.41500	817.00	.4817	.3517	.5402	.9130	.8695-02	.8243-02	.6670	4.621	575.8
209	80.000	.42000	818.00	.4806	.3150-01	.4978	.9130	.1168-02	.1765-02	.2240	1.670	567.5
209	80.000	.42500	819.00	.4803	.3150-01	.4978	.9130	.8255-03	.1247-02	.1670	.9930-01	566.9
209	80.000	.43000	820.00	.4800	.3150-01	.4978	.9130	.6413-03	.8683-03	.1210	.7310	567.5
209	80.000	.43500	821.00	.4797	.3150-01	.4978	.9130	.6844-02	.4008-02	.5310	.3135	564.1
209	80.000	.44000	822.00	.4794	.3150-01	.4978	.9130	.8785-02	.4872-02	.6150	.3619	561.6
209	80.000	.44500	823.00	.4791	.3150-01	.4978	.9130	.9278-02	.5088-02	.6760	.3979	559.5
209	80.000	.45000	824.00	.4788	.3150-01	.4978	.9130	.8847-02	.4912-02	.6230	.3668	561.5
209	80.000	.45500	825.00	.4785	.3150-01	.4978	.9130	.8785-02	.4858-02	.6110	.3610	560.6
209	80.000	.46000	826.00	.4782	.3150-01	.4978	.9130	.8082-02	.4677-02	.5810	.3435	559.5
209	80.000	.46500	827.00	.4779	.3150-01	.4978	.9130	.9878-02	.9042-02	1.079	.6389	551.5
209	80.000	.47000	828.00	.4776	.3150-01	.4978	.9130	.2406-02	.1619-01	1.589	1.015	550.6
209	80.000	.47500	829.00	.4773	.3150-01	.4978	.9130	.1304-01	.2485-01	1.915	1.227	550.5
209	80.000	.48000	830.00	.4770	.3150-01	.4978	.9130	.1168-01	.2169-01	1.693	1.007	550.5
209	80.000	.48500	831.00	.4767	.3150-01	.4978	.9130	.8230-02	.1319-01	1.007	.7070	550.5
209	80.000	.49000	832.00	.4764	.3150-01	.4978	.9130	.5486-02	.8735-02	.6830	.4530	550.5
209	80.000	.49500	833.00	.4761	.3150-01	.4978	.9130	.3682-02	.5848-02	.4760	.3150	550.5
209	80.000	.50000	834.00	.4758	.3150-01	.4978	.9130	.2387-02	.3732-02	.2930	.1960	550.5
209	80.000	.50500	835.00	.4755	.3150-01	.4978	.9130	.1393-02	.2068-02	.1620	.1090	550.5
209	80.000	.51000	836.00	.4752	.3150-01	.4978	.9130	.1049-02	.1518-02	.1200	.8000-01	550.5
209	80.000	.51500	837.00	.4749	.3150-01	.4978	.9130	.8205-03	.9476-03	.1160	.7800-01	550.5

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F34)

IH41(AEDC V41A-A4A) O T S (CONFIG 3) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
208	90.000	.60000	836.00	.2970-01	.2380-01	.3640-01	.9130	.1066-02	.1629-02	.1980	1.318	553.0
208	90.000	.70000	837.00	.5010-01	.3980-01	.6200-01	.9130	.1782-02	.2775-02	.3200	2.242	559.4
208	90.000	.80000	838.00	.5190-01	.4130-01	.6390-01	.9130	.1850-02	.2858-02	.3370	2.085	556.9
208	90.000	.90000	839.00	.2220-01	.1740-01	.2780-01	.9130	.7800-03	.1243-02	.1350	.8520	566.5
208	112.50	.23000	840.00	.2970-01	.2400-01	.3610-01	.9133	.1072-02	.1615-02	.2050	1.649	548.3
208	112.50	.25000	841.00	.1200-01	.9700-02	.1450-01	.9130	.4330-03	.6496-03	.8300-01	.6470	546.3
208	112.50	.30000	843.00	.1039	.8340-01	.1270	.9130	.3734-02	.5681-02	.7010	4.158	551.5
208	112.50	.33000	844.00	.7010-01	.5650-01	.8500-01	.9130	.2534-02	.3805-02	.4880	2.943	546.6
208	112.50	.35000	845.00	.5920-01	.4800-01	.7150-01	.9130	.2147-02	.3198-02	.4200	2.577	543.6
208	112.50	.37000	846.00	.4600-01	.3740-01	.5550-01	.9130	.1672-02	.2492-02	.3290	2.034	542.2
208	112.50	.40000	847.00	.2410-01	.1970-01	.2900-01	.9130	.8808-03	.1296-02	.1770	1.107	538.4
208	112.50	.45000	848.00	.1560-01	.1270-01	.1890-01	.9130	.5675-03	.8447-03	.1110	.7000	543.2
208	112.50	.50000	849.00	.2910-01	.2340-01	.3540-01	.9130	.1047-02	.1586-02	.1980	1.270	550.1
208	112.50	.55000	850.00	.9900-02	.7800-02	.1190-01	.9130	.3510-03	.5330-03	.6600-01	.4410	550.8
208	112.50	.60000	851.00	.1940-01	.1560-01	.2370-01	.9130	.6960-03	.1060-02	.1300	.8720	551.8
208	112.50	.65000	852.00	.3690-01	.2950-01	.4520-01	.9130	.1319-02	.2023-02	.2440	1.653	554.3
208	112.50	.70000	853.00	.4350-01	.3460-01	.5370-01	.9130	.1548-02	.2402-02	.2800	1.951	558.5
208	112.50	.75000	854.00	.2900-01	.2310-01	.3570-01	.9130	.1032-02	.1598-02	.1870	1.298	557.7
208	112.50	.80000	855.00	.4670-01	.3730-01	.5750-01	.9130	.1669-02	.2572-02	.3050	1.978	556.1
208	112.50	.85000	856.00	.4530-01	.3610-01	.5760-01	.9130	.1615-02	.2575-02	.2790	1.789	566.7
208	125.40	.84000	857.00	.6240-01	.4950-01	.7740-01	.9130	.2215-02	.3464-02	.3950	2.425	560.8
208	125.40	.85000	858.00	.5810-01	.4610-01	.7200-01	.9130	.2061-02	.3223-02	.3680	2.270	560.8
208	125.40	.86000	859.00	.5440-01	.4320-01	.6740-01	.9130	.1931-02	.3016-02	.3450	2.149	560.4
208	125.40	.87000	860.00	.5280-01	.4190-01	.6550-01	.9130	.1875-02	.2930-02	.3350	2.091	560.6
208	125.40	.88000	861.00	.5530-01	.4380-01	.6880-01	.9130	.1959-02	.3077-02	.3470	2.161	562.2
208	125.40	.89000	862.00	.6590-01	.5200-01	.8220-01	.9130	.2327-02	.3679-02	.4070	2.551	564.2
208	125.40	.90000	863.00	.6720-01	.5280-01	.8410-01	.9130	.2364-02	.3761-02	.4090	2.577	566.0
208	125.40	.91000	864.00	.8090-01	.6350-01	.1012	.9130	.2840-02	.4530-02	.4900	3.525	566.8
208	125.40	.92500	865.00	.1301	.1010	.1653	.9130	.4517-02	.7398-02	.7460	5.333	574.0
208	125.40	.80000	866.00	.4440-01	.3530-01	.5470-01	.9130	.1581-02	.2446-02	.2880	1.799	557.3
208	125.40	.81000	867.00	.4240-01	.3380-01	.5220-01	.9130	.1511-02	.2336-02	.2750	1.710	557.1
208	125.40	.82000	868.00	.3890-01	.3100-01	.4790-01	.9130	.1386-02	.2144-02	.2520	1.566	557.4
208	125.40	.83000	869.00	.4760-01	.3770-01	.5900-01	.9130	.1689-02	.2639-02	.3020	1.877	560.6
208	135.00	.40000-01	870.00	.4644	.3346	.4450	.9656	.1497-01	.1991-01	1.981	12.36	606.9
208	135.00	.50000-01	871.00	.4434	.3202	.4364	.9521	.1433-01	.1953-01	1.905	11.82	606.2
208	135.00	.60000-01	872.00	.3438	.2517	.3472	.9487	.1126-01	.1553-01	1.554	10.04	601.2
208	135.00	.70000-01	873.00	.3094	.2285	.3198	.9454	.1022-01	.1431-01	1.445	9.583	597.8
208	135.00	.10000+00	875.00	.2439	.1876	.2658	.9363	.8396-02	.1189-01	1.344	8.682	579.0
208	135.00	.15000	876.00	.1252	.9890-01	.1454	.9240	.4423-02	.6504-02	.7760	5.533	563.7
208	135.00	.20000	877.00	.6090-01	.4900-01	.7310-01	.9158	.2193-02	.3269-02	.4150	2.793	550.0
208	135.00	.35000	878.00	.5050-01	.4090-01	.6100-01	.9130	.1832-02	.2730-02	.3580	2.228	543.7
208	135.00	.40000	879.00	.3190-01	.2590-01	.3850-01	.9130	.1161-02	.1722-02	.2290	1.456	541.8
208	135.00	.50000	880.00	.6040-01	.4830-01	.7410-01	.9130	.2163-02	.3318-02	.4000	2.735	554.4

IH41(AEDC V41A-A4A) O T S (CONFIG 3) TANK DATA (RV7-3A)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
208	135.00	.55000	881.00	.7070-01	.5640-01	.8710-01	.9130	.2522-02	.3898-02	.4590	3.045	557.0
208	135.00	.60000	882.00	.5580-01	.4450-01	.6850-01	.9130	.1992-02	.3067-02	.3660	2.446	555.7
208	135.00	.65000	883.00	.6880-01	.5480-01	.8490-01	.9130	.2453-02	.3797-02	.4460	3.024	557.5
208	135.00	.70000	884.00	.5700-01	.4540-01	.7040-01	.9130	.2031-02	.3152-02	.3670	2.594	558.4
208	135.00	.75000	885.00	.6010-01	.4770-01	.7460-01	.9130	.2133-02	.3337-02	.3800	2.379	560.9
209	135.00	.80000	886.00	.4450-01	.3540-01	.5480-01	.9130	.1586-02	.2454-02	.2880	1.803	557.3
209	135.00	.84000	887.00	.7590-01	.5980-01	.9460-01	.9130	.2678-02	.4234-02	.0000	.0000	244.7
209	135.00	.85000	888.00	.7860-01	.6150-01	.9910-01	.9130	.2751-02	.4436-02	.4660	2.918	569.4
209	135.00	.87000	890.00	.5330-01	.4200-01	.6650-01	.9130	.1879-02	.2980-02	.3270	2.058	564.7
209	135.00	.88000	891.00	.6380-01	.5010-01	.8000-01	.9130	.2242-02	.3581-02	.3850	2.440	566.7
209	135.00	.89000	892.00	.6210-01	.4860-01	.7820-01	.9130	.2177-02	.3501-02	.3700	2.380	568.7
209	135.00	.91000	894.00	.2950-01	.2310-01	.3730-01	.9130	.1032-02	.1666-02	.1740	1.254	570.0
209	135.00	.92600	895.00	5530-01	.4240-01	.7140-01	.9130	.1930-02	.3196-02	.3010	2.152	580.2
209	135.00	.95000	896.00	.5280-01	.4170-01	.6580-01	.9130	.1868-02	.2947-02	.3280	2.347	563.2
209	142.30	.42000	897.00	.3530-01	.2830-01	.4320-01	.9130	.1266-02	.1936-02	.2350	1.508	552.8
209	142.30	.43500	898.00	.1109	.8760-01	.1381	.9130	.3922-02	.6184-02	.6890	4.271	562.9
209	142.30	.45000	899.00	.1245	.9820-01	.1555	.9130	.4395-02	.6960-02	.7660	4.971	564.2
209	142.30	50000	900.00	.1100	.8670-01	.1374	.9130	.3882-02	.6150-02	.6770	4.467	564.3
209	142.30	.60000	901.00	.8130-01	.6470-01	.1005	.9130	.2835-02	.4498-02	.5220	3.446	558.3
209	142.30	.70000	902.00	.9140-01	.7190-01	.1142	.9130	.3220-02	.5113-02	.5590	3.780	565.0
209	142.30	.80000	903.00	.6920-01	.5480-01	.8590-01	.9130	.2452-02	.3844-02	.4350	2.745	561.2
209	142.30	.87000	904.00	.6540-01	.5130-01	.8210-01	.9130	.2298-02	.3674-02	.3940	2.466	567.1
209	154.98	.42000	905.00	.5270-01	.4210-01	.6480-01	.9130	.1884-02	.2901-02	.3460	2.219	555.2
209	154.98	.43500	906.00	.6580-01	.5180-01	.8220-01	.9130	.2318-02	3680-02	.4030	2.588	564.9
209	154.98	.45000	907.00	.8230-01	.6470-01	.1030	.9130	.2899-02	.4612-02	.5010	3.241	565.6
209	154.98	.50000	908.00	.1078	.8460-01	.1352	.9130	.3787-02	.6051-02	.0000	.0000	327.1
209	154.98	.93500	913.00	.1515	.1113	.2059	.9130	.4982-02	.9264-02	.6930	4.906	559.6
209	154.98	.94500	914.00	.8250-01	.6230-01	.1085	.9130	.2789-02	.4857-02	.4210	2.969	587.7
209	157.50	.70000-01	918.00	.5750-01	.4630-01	.6880-01	.9453	.2073-02	.2635-02	.3930	2.727	551.0
209	157.50	.80000-01	919.00	.5300-01	.4270-01	.6510-01	.9422	.1914-02	.2468-02	.3650	2.486	550.0
209	157.50	.10000+00	920.00	.5160-01	.4160-01	.6520-01	.9362	.1864-02	.2473-02	.3570	2.382	549.1
209	157.50	.20000	922.00	.5320-01	.4460-01	.6600-01	.9158	.1995-02	.2955-02	.3830	2.548	548.7
209	157.50	.42000	923.00	.6480-01	.5200-01	.7850-01	.9130	.2328-02	.3518-02	.4430	2.888	550.1
209	157.50	.43500	924.00	.7070-01	.5700-01	.8600-01	.9130	.2555-02	.3852-02	.4890	3.194	549.3
209	157.50	.45000	925.00	.6820-01	.5630-01	.1000+00	.9130	.2971-02	.4481-02	.5680	3.746	549.4
209	157.50	.85000	926.00	.9270-01	.7470-01	.1128	.9130	.3346-02	.5053-02	.6380	4.121	549.9
209	157.50	.86000	927.00	.8230-01	.6340-01	.1052	.9130	.3110-02	.4711-02	.5900	3.816	551.0
209	157.50	.87000	928.00	.7700-01	.6200-01	.9370-01	.9130	.2778-02	.4195-02	.5300	3.440	550.0
209	157.50	.88000	929.00	.6920-01	.5540-01	.8820-01	.9130	.2032-02	.3054-02	.3910	2.559	548.0
209	157.50	.89000	930.00	.6490-01	.5190-01	.8320-01	.9130	.1767-02	.2650-02	.3420	2.248	547.3
209	157.50	.90000	931.00	.5760-01	.4720-01	.7660-01	.9130	.1397-02	.2089-02	.2720	1.833	546.1
209	157.50	.91000	932.00	.5060-01	.4210-01	.7450-01	.9130	.1035-02	.1548-02	.2010	1.475	546.0
209	157.50	.92500	933.00	.5510-01	.4100-01	.7410-01	.9130	.1833-02	.3320-02	.2630	1.874	555.1

1H41(AEDC V41A-A4A) O T S (CONFIG 3) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TH DEG. R
209	163.12	.41500	934.00	.6510-01	.5210-01	.7980-01	.9130	.2332-02	.3574-02	.4310	2.787	553.7
209	163.12	.42000	935.00	.7120-01	.5680-01	.8760-01	.9130	.2544-02	.3922-02	.4650	3.032	555.7
209	163.12	.43000	937.00	.1123	.8830-01	.1407	.9130	.3954-02	.6298-02	.6820	4.436	566.0
209	163.12	.44000	938.00	.2085	.1605	.2679	.9130	.7185-02	.1199-01	1.152	7.417	578.3
209	163.12	.44500	939.00	.1939	.1493	.2488	.9130	.6687-02	.1114-01	1.075	7.026	577.9
209	163.12	.45000	940.00	.1802	.1388	.2312	.9130	.6215-02	.1035-01	.9990	6.535	577.8
209	163.12	.50000	941.00	.9330-01	.7250-01	.1184	.9130	.3246-02	.5301-02	.5380	3.602	572.8
209	163.12	.60000	942.00	.9520-01	.7460-01	.1195	.9130	.3342-02	.5352-02	.5720	3.650	567.5
209	163.12	.70000	943.00	.7160-01	.5640-01	.8940-01	.9130	.2523-02	.4004-02	.4380	2.983	564.8
209	163.12	.80000	944.00	.5780-01	.4550-01	.7220-01	.9130	.2038-02	.3232-02	.3550	2.293	564.6
209	168.00	.35000	945.00	.3490-01	.2800-01	.4260-01	.9130	.1256-02	.1909-02	.2360	1.492	550.7
209	168.00	.36000	946.00	.3400-01	.2740-01	.4150-01	.9130	.1225-02	.1857-02	.2310	1.467	549.9
209	168.00	.37000	947.00	.3900-01	.3130-01	.4770-01	.9130	.1402-02	.2135-02	.2620	1.668	551.5
209	168.00	.37500	948.00	.4130-01	.3310-01	.5050-01	.9130	.1483-02	.2261-02	.2770	1.761	551.9
209	168.00	.38500	950.00	.4270-01	.3430-01	.5220-01	.9130	.1535-02	.2337-02	.2880	1.850	551.3
209	168.00	.39000	951.00	.4780-01	.3840-01	.5850-01	.9130	.1718-02	.2619-02	.3210	2.077	551.8
209	168.00	.39500	952.00	.5070-01	.4060-01	6200-01	.9130	.1818-02	.2777-02	.3380	2.157	552.5
209	168.00	.40000	953.00	.5320-01	.4260-01	.6520-01	.9130	.1909-02	.2921-02	.3540	2.295	553.2
209	168.00	.40500	954.00	.5810-01	.4650-01	.7120-01	.9130	.2081-02	.3190-02	.3850	2.502	553.7
209	168.00	.41000	955.00	.6370-01	.5100-01	.7830-01	.9130	.2282-02	.3505-02	.4200	2.731	554.4
209	168.00	.41500	956.00	.7140-01	.5700-01	.8780-01	.9130	.2550-02	.3933-02	.4660	3.035	555.9
209	168.00	.42000	957.00	.8720-01	.6950-01	.1075	.9130	.3111-02	.4814-02	.5650	3.689	557.0
209	168.00	.42500	958.00	.8840-01	.7020-01	.1094	.9130	.3141-02	.4896-02	.5630	3.672	559.3
209	168.00	.43000	959.00	.1401	.1087	.1781	.9130	.4869-02	.7975-02	.8030	5.185	573.6
209	168.00	.44000	960.00	.2197	.1681	.2843	.9130	.7528-02	.1273-01	1.184	7.636	581.4
209	168.00	.44500	961.00	.2084	.1609	.2667	.9130	.7204-02	.1194-01	1.167	7.544	576.6
209	168.00	.45000	962.00	.1881	.1456	.2401	.9130	.6518-02	.1075-01	1.064	6.926	575.3
209	168.00	.45500	963.00	.1870	.1438	.2403	.9130	.6440-02	.1076-01	1.031	6.700	578.5
209	168.00	.46000	964.00	.1634	.1256	.2103	.9130	.5625-02	.9415-02	.8980	5.867	579.0
209	168.00	.47000	965.00	.1519	.1172	.1944	.9130	.5248-02	.8702-02	.8500	5.576	576.7
209	168.00	.48000	966.00	.1351	.1047	.1720	.9130	.4687-02	.7700-02	.7700	5.103	574.4
209	168.00	.49000	967.00	.1064	.8330-01	.1338	.9130	.3729-02	.5990-02	.6350	4.219	568.4
209	168.00	.85000	968.00	.5000-01	.3920-01	.6270-01	.9130	.1755-02	.2809-02	.3010	1.930	567.3
209	168.00	.86000	969.00	.4620-01	.3610-01	.5820-01	.9130	.1618-02	.2608-02	.2740	1.761	569.4
209	168.00	.87000	970.00	.5330-01	.4150-01	.6730-01	.9130	.1860-02	.3015-02	.3120	2.009	571.0
209	168.00	.88000	971.00	.8300-01	.6420-01	.1059	.9130	.2876-02	.4744-02	.4690	3.027	575.4
209	168.00	.89000	972.00	.9270-01	.7120-01	.1195	.9130	.3187-02	.5348-02	.5070	3.311	579.6
209	168.00	.90000	973.00	.9400-01	.7190-01	.1216	.9130	.3219-02	.5444-02	.5060	3.384	581.4
209	168.00	.91000	974.00	.4670-01	.3540-01	.6110-01	.9130	.1587-02	.2734-02	.2430	1.738	585.5
209	168.00	.92600	975.00	.8580-01	.6270-01	.1181	.9130	.2808-02	.5287-02	.3850	2.713	601.6
209	168.00	.95000	976.00	.6800-01	.5350-01	.8490-01	.9130	.2396-02	.3803-02	.4160	2.970	564.9
209	180.00	.20000-01	982.00	.1574	.1210	.1478	.9608	.5416-02	.6615-02	.8650	5.917	578.9
209	180.00	.25000-01	983.00	.3021	.2276	.2857	.9588	.1019-01	.1279-01	1.524	10.31	589.0

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RVTF34)

IH41(AEDC V41A-A4A) O T S (CONFIG 3) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
209	180.00	.30000-01	984.00	.5885	.4176	.5561	.9571	.1870-01	.2490-01	2.378	15.82	611.4
206	180.00	.40000-01	600.00	.5194	.3796	.4988	.9556	.1699-01	.2232-01	2.334	14.60	602.3
206	180.00	.50000-01	601.00	.4376	.3202	.4311	.9521	.1433-01	.1929-01	1.976	12.40	601.9
206	180.00	.60000-01	602.00	.3645	.2703	.3680	.9486	.1210-01	.1647-01	1.732	11.25	596.6
206	180.00	.70000-01	603.00	.3267	.2436	.3374	.9453	.1090-01	.1510-01	1.586	10.57	594.3
206	180.00	.80000-01	604.00	.3051	.2300	.3215	.9422	.1029-01	.1439-01	1.547	9.851	589.5
206	180.00	.10000+00	605.00	.2111	.1627	.2299	.9363	.7283-02	.1029-01	1.175	8.302	578.4
206	180.00	.15000	606.00	.1064	.8380-01	.1238	.9240	.3750-02	.5542-02	.6520	4.692	565.9
206	180.00	.20000	607.00	.5930-01	.4760-01	.7140-01	.9158	.2129-02	.3197-02	.3970	2.583	553.2
206	180.00	.21000	508.00	.4300-01	.3450-01	.5210-01	.9147	.1546-02	.2332-02	.2890	1.994	552.5
206	180.00	.22000	609.00	.3490-01	.2810-01	.4230-01	.9139	.1256-02	.1895-02	.2370	1.763	550.8
206	180.00	.30000	610.00	.4170-01	.3360-01	.5080-01	.9130	.1503-02	.2273-02	.2850	1.950	549.9
206	180.00	.35000	611.00	.3360-01	.2720-01	.4070-01	.9130	.1218-02	.1824-02	.2360	1.573	545.9
206	180.00	.36000	612.00	.3840-01	.3110-01	.4660-01	.9130	.1391-02	.2085-02	.2690	1.809	546.3
206	180.00	.37500	614.00	.4570-01	.3690-01	.5560-01	.9130	.1651-02	.2487-02	.3160	2.122	548.3
206	180.00	.38000	615.00	.4850-01	.3910-01	.5900-01	.9130	.1750-02	.2642-02	.3340	2.240	549.1
206	180.00	.38500	616.00	.5130-01	.4140-01	.6250-01	.9130	.1851-02	.2797-02	.3520	2.363	549.5
206	180.00	.39000	617.00	.5870-01	.4730-01	.7150-01	.9130	.2118-02	.3202-02	.4030	2.695	549.6
206	180.00	.39500	618.00	.6050-01	.4870-01	.7380-01	.9130	.2181-02	.3302-02	.4130	2.791	550.2
206	180.00	.40000	619.00	.6260-01	.5030-01	.7630-01	.9130	.2252-02	.3417-02	.4250	2.844	550.9
206	180.00	.41000	621.00	.7230-01	.5800-01	.8830-01	.9130	.2597-02	.3931-02	.4880	3.271	551.9
206	180.00	.41500	622.00	.7750-01	.6210-01	.9480-01	.9130	.2780-02	.4242-02	.5190	3.467	553.0
206	180.00	.42500	624.00	.1217	.9690-01	.1500	.9130	.4338-02	.6714-02	.7890	5.255	557.9
206	180.00	.43000	625.00	.1508	.1179	.1901	.9130	.5276-02	.8510-02	.8930	5.934	570.4
206	180.00	.44000	626.00	.1877	.1391	.2530	.9130	.6228-02	.1132-01	.8910	5.839	596.7
206	180.00	.44500	627.00	.2911	.2154	.3936	.9130	.9639-02	.1762-01	1.370	9.060	597.6
206	180.00	.45000	628.00	.3251	.2440	.4312	.9130	.1092-01	.1930-01	1.619	10.74	591.5
206	180.00	.45500	629.00	.2746	.2109	.3538	.9130	.9439-02	.1583-01	1.504	10.18	580.4
206	180.00	.46000	630.00	.2226	.1736	.2812	.9130	.7771-02	.1259-01	1.308	8.680	571.5
206	180.00	.47000	631.00	.1100	.8670-01	.1372	.9130	.3882-02	.6142-02	.6790	4.523	564.8
206	180.00	.48000	632.00	.4260-01	.3350-01	.5320-01	.9130	.1500-02	.2382-02	.2610	1.747	565.9
206	180.00	.50000	634.00	.5410-01	.4230-01	.6800-01	.9130	.1894-02	.3045-02	.3230	2.231	569.5
206	180.00	.55000	635.00	.1175	.9190-01	.1479	.9130	.4113-02	.6621-02	.6990	4.588	569.8
206	180.00	.60000	636.00	.1289	.1013	.1616	.9130	.4534-02	.7231-02	.7820	4.994	567.2
206	180.00	.65000	637.00	.1215	.9590-01	.1513	.9130	.4294-02	.6773-02	.7550	4.840	563.9
206	180.00	.70000	638.00	.9180-01	.7290-01	.1135	.9130	.3263-02	.5079-02	.5870	3.994	559.7
206	180.00	.75000	639.00	.6400-01	.5120-01	.7860-01	.9130	.2292-02	.3516-02	.4240	2.723	554.8
206	180.00	.80000	640.00	.6420-01	.5140-01	.7870-01	.9130	.2302-02	.3522-02	.4280	2.670	554.0
206	180.00	.85000	641.00	.5950-01	.4720-01	.7370-01	.9130	.2114-02	.3297-02	.3790	2.380	560.4
206	180.00	.86000	642.00	.5990-01	.4740-01	.7440-01	.9130	.2123-02	.3328-02	.3770	2.401	562.0
206	180.00	.87000	643.00	.9090-01	.7150-01	.1136	.9130	.3202-02	.5084-02	.5570	3.557	565.8
206	180.00	.88000	644.00	.8520-01	.6690-01	.1069	.9130	.2993-02	.4784-02	.5150	3.313	567.8
206	180.00	.89000	645.00	.8790-01	.6860-01	.1109	.9130	.3072-02	.4965-02	.5180	3.371	571.0

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F34)

IH41(AEDC V41A-A4A) O T S (CONFIG 3) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
206	180.00	.90000	648.00	.5500-01	.4300-01	.6920-01	.9130	.1925-02	.3097-02	.3270	2.175	569.7
206	180.00	.95000	649.00	.3910-01	.3140-01	.4790-01	.9130	.1404-02	.2143-02	.2620	1.884	553.2
206	191.25	.35000	650.00	.3470-01	.2810-01	.4200-01	.9130	.1256-02	.1881-02	.2440	1.638	545.9
206	191.25	.36000	651.00	.3610-01	.2920-01	.4360-01	.9130	.1309-02	.1953-02	.2550	1.722	544.7
206	191.25	.37000	652.00	.3800-01	.3080-01	.4600-01	.9130	.1380-02	.2058-02	.2690	1.812	544.5
206	191.25	.37500	653.00	.3620-01	.2940-01	.4390-01	.9130	.1314-02	.1964-02	.2550	1.724	545.3
206	191.25	.38000	654.00	.3980-01	.3220-01	.4810-01	.9130	.1442-02	.2153-02	.2810	1.896	544.9
206	191.25	.38500	655.00	.3920-01	.3180-01	.4750-01	.9130	.1421-02	.2125-02	.2760	1.865	545.3
206	191.25	.39000	656.00	.4160-01	.3370-01	.5050-01	.9130	.1508-02	.2259-02	.2920	1.967	546.2
206	191.25	.39500	657.00	.4250-01	.3440-01	.5140-01	.9130	.1538-02	.2301-02	.2990	2.015	545.5
206	191.25	.40500	659.00	.4670-01	.3780-01	.5660-01	.9130	.1690-02	.2535-02	.3260	2.208	546.6
206	191.25	.41000	660.00	.4820-01	.3900-01	.5840-01	.9130	.1743-02	.2615-02	.3370	2.270	546.6
206	191.25	.41500	661.00	.5500-01	.4450-01	.6670-01	.9130	.1991-02	.2986-02	.3840	2.584	546.7
206	191.25	.42000	662.00	.7660-01	.6160-01	.9360-01	.9130	.2755-02	.4191-02	.5170	3.479	551.9
206	191.25	.42500	663.00	.9980-01	.7940-01	.1231	.9130	.3555-02	.5511-02	.6440	4.331	558.5
206	191.25	.43000	664.00	.1175	.9100-01	.1499	.9130	.4071-02	.6711-02	.6660	4.479	576.1
206	191.25	.44000	665.00	.1991	.1502	.2623	.9130	.6721-02	.1174-01	1.012	6.717	589.2
206	191.25	.45000	666.00	.1954	.1506	.2507	.9130	.6738-02	.1122-01	1.086	7.246	578.6
206	191.25	.45500	667.00	.1634	.1261	.2093	.9130	.5644-02	.9366-02	.9140	6.104	577.8
206	191.25	.46000	668.00	.1227	.9480-01	.1570	.9130	.4242-02	.7028-02	.6890	4.613	577.4
206	191.25	.47000	669.00	.1326	.1027	.1690	.9130	.4596-02	.7566-02	.7540	5.068	575.8
206	191.25	.48000	670.00	.1450	.1125	.1844	.9130	.5036-02	.8253-02	.8320	5.596	574.6
206	191.25	.49000	671.00	.1578	.1225	.2006	.9130	.5483-02	.8980-02	.9060	6.079	574.5
206	191.25	.50000	672.00	.1388	.1075	.1768	.9130	.4813-02	.7912-02	.7910	5.419	575.4
206	191.25	.60000	673.00	.9300-01	.7370-01	.1153	.9130	.3299-02	.5159-02	.5890	3.750	561.2
206	191.25	.70000	674.00	.9680-01	.7610-01	.1213	.9130	.3404-02	.5429-02	.5870	3.955	567.2
206	191.25	.85000	676.00	.6260-01	.4980-01	.7730-01	.9130	.2230-02	.3460-02	.4030	2.535	558.8
206	191.25	.86000	677.00	.6200-01	.4910-01	.7680-01	.9130	.2199-02	.3438-02	.3930	2.493	561.1
206	191.25	.87000	678.00	.8820-01	.6950-01	.1100	.9130	.3112-02	.4925-02	.5440	3.478	564.9
206	191.25	.88000	679.00	.7930-01	.6230-01	.9940-01	.9130	.2788-02	.4448-02	.4810	3.107	567.2
206	191.25	.89000	680.00	.7650-01	.5990-01	.9640-01	.9130	.2679-02	.4316-02	.4550	2.976	570.0
206	191.25	.90000	681.00	.6420-01	.5000-01	.8130-01	.9130	.2239-02	.3639-02	.3750	2.494	572.4
206	191.25	.91000	682.00	.3450-01	.2680-01	.4380-01	.9130	.1202-02	.1960-02	.2000	1.439	573.4
206	191.25	.92600	683.00	.2270	.1681	.3064	.9130	.7525-02	.1371-01	1.073	7.660	597.1
206	191.25	.95000	684.00	.4120-01	.3300-01	.5050-01	.9130	.1476-02	.2258-02	.2740	1.974	553.9
206	197.00	.33000	685.00	.3340-01	.2700-01	.4050-01	.9130	.1211-02	.1812-02	.2350	1.579	545.8
206	197.00	.34000	686.00	.3370-01	.2720-01	.4080-01	.9130	.1219-02	.1825-02	.2370	1.591	545.7
206	197.00	.35000	687.00	.3410-01	.2760-01	.4130-01	.9130	.1236-02	.1848-02	.2400	1.616	545.3
206	197.00	.36000	688.00	.3800-01	.3080-01	.4610-01	.9130	.1378-02	.2061-02	.2670	1.798	545.7
206	197.00	.37000	689.00	.3480-01	.2820-01	.4210-01	.9130	.1262-02	.1883-02	.2460	1.657	544.6
206	197.00	.37500	690.00	.3280-01	.2660-01	.3960-01	.9130	.1189-02	.1774-02	.2320	1.565	544.6
206	197.00	.50000	691.00	.1906	.1428	.2532	.9130	.6393-02	.1133-01	.9440	6.204	592.1
206	197.00	.60000	692.00	.6030-01	.4780-01	.7490-01	.9130	.2139-02	.3352-02	.3810	2.435	561.9

DATE 03 JUN 75 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F34)

IH41(AEDC V41A-A4A) O T S (CONFIG 3) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
206	197.00	.70000	693.00	.8520-01	.6580-01	.1091	.9130	.2943-02	.4885-02	.4760	3.181	577.9
206	197.00	.80000	694.00	.4420-01	.3540-01	.5420-01	.9130	.1584-02	.2424-02	.2940	1.843	553.9
206	197.00	.87000	695.00	.7880-01	.6210-01	.9840-01	.9130	.2779-02	.4404-02	.4850	3.063	565.3
206	197.00	.92600	696.00	.2251	.1670	.3031	.9130	.7475-02	.1357-01	1.072	7.650	596.4
207	209.80	.15000-01	697.00	.1411	.1149	.1692	.9136	.5146-02	.7575-02	1.031	7.093	543.2
207	209.80	.30000-01	698.00	.5333	.3887	.5063	.9572	.1740-01	.2266-01	2.366	15.67	601.5
207	209.80	.50000-01	699.00	.4101	.2999	.4039	.9521	.1342-01	.1808-01	1.843	11.40	600.2
207	209.80	.70000-01	700.00	.3876	.2816	.4015	.9454	.1261-01	.1797-01	1.701	11.18	602.6
207	209.80	.10000+00	701.00	.2602	.1952	.2864	.9363	.8736-02	.1282-01	1.288	8.037	590.0
207	209.80	.15000	702.00	.8790-01	.6880-01	.1028	.9240	.3080-02	.4599-02	.5230	3.699	567.8
207	209.80	.20000	703.00	.6040-01	.4870-01	.7230-01	.9158	.2180-02	.3234-02	.4150	2.767	546.9
207	209.80	.30000	704.00	.3870-01	.3140-01	.4680-01	.9130	.1405-02	.2093-02	.2740	1.947	542.3
207	209.80	.37500	706.00	.5000-01	.4060-01	.6020-01	.9130	.1817-02	.2696-02	.3580	2.465	540.6
207	209.80	.50000	707.00	.1131	.8820-01	.1430	.9130	.3947-02	.6400-02	.6610	4.470	570.1
207	209.80	.60000	708.00	.1127	.8970-01	.1391	.9130	.4015-02	.6226-02	.7260	4.603	556.8
207	209.80	.70000	709.00	.5450-01	.4320-01	.6760-01	.9130	.1934-02	.3027-02	.3440	2.178	559.7
207	209.80	.80000	710.00	.3650-01	.2930-01	.4470-01	.9130	.1310-02	.2000-02	.2440	1.516	551.4
207	209.80	.87000	711.00	.4870-01	.3860-01	.6020-01	.9130	.1730-02	.2695-02	.3100	1.946	558.4
207	209.80	.92600	712.00	.1205	.9180-01	.1567	.9130	.4110-02	.7013-02	.6370	4.549	582.5
207	217.70	.15000-01	713.00	.2456	.1908	.3118	.9130	.8540-02	.1396-01	1.412	9.601	572.2
207	217.70	.30000-01	714.00	.5070	.3699	.4815	.9571	.1656-01	.2155-01	2.258	14.95	601.1
207	217.70	.50000-01	715.00	.4211	.3071	.4146	.9521	.1375-01	.1856-01	1.872	11.89	601.2
207	217.70	.70000-01	716.00	.3213	.2279	.3340	.9454	.1020-01	.1495-01	1.293	8.551	610.7
207	217.70	.10000+00	717.00	.1559	.1172	.1715	.9363	.5244-02	.7676-02	.7780	4.938	589.2
207	217.70	.15000	718.00	.9840-01	.7680-01	.1153	.9240	.3438-02	.5159-02	.5770	4.177	569.5
207	217.70	.20000	719.00	.6430-01	.5190-01	.7700-01	.9158	.2322-02	.3446-02	.4420	2.979	547.1
207	217.70	.30000	720.00	.3910-01	.3170-01	.4720-01	.9130	.1420-02	.2114-02	.2770	1.988	542.2
207	217.70	.35000	721.00	.5230-01	.4250-01	.6320-01	.9130	.1901-02	.2828-02	.3720	2.584	541.8
207	217.70	.37500	722.00	.4400-01	.3570-01	.5300-01	.9130	.1600-02	.2372-02	.3150	2.193	540.4
207	217.70	.50000	723.00	.1370	.1092	.1687	.9130	.4889-02	.7553-02	.8890	6.118	555.6
207	217.70	.70000	725.00	.5680-01	.4540-01	.6970-01	.9130	.2032-02	.3121-02	.3740	2.368	553.6
207	217.70	.80000	726.00	.3540-01	.2920-01	.4450-01	.9130	.1308-02	.1990-02	.2450	1.538	550.1
207	217.70	.87000	727.00	.7220-01	.5720-01	.8950-01	.9130	.2561-02	.4007-02	.4550	2.890	559.7
207	217.70	.92600	728.00	.9380-01	.7250-01	.1198	.9130	.3243-02	.5363-02	.5270	3.774	575.1

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7735)

IH41(AEDC V41A-A4A' O T S (CONFIG 4) TANK DATA

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = .0000 BETA = .0000 GRIT = .0000 RN/L = 5.000

•••TEST CONDITIONS•••

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
219	3.510	4.802	-.2000-01	.0000	.0000	56.90	.7350	679.0	196.0	6.342	2408.	.3147-03
220	3.510	4.799	-.3000-01	.0000	.0000	56.90	.7360	679.0	196.2	6.343	2409.	.3146-03
221	3.510	4.788	-.2000-01	.0000	.0000	56.90	.7350	680.0	196.4	6.340	2410.	.3141-03
222	3.510	4.786	-.2000-01	.0000	.0000	56.90	.7350	680.0	196.4	6.338	2410.	.3140-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
219	.1578-06	.5530-01	.9279-02
220	.1579-06	.5531-01	.9281-02
221	.1581-06	.5531-01	.9291-02
222	.1581-06	.5530-01	.9292-02

•••TEST DATA•••

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
221	.00000	.30000-02	730.00	.4174	.2807	.3435	.9721	.1552-01	.1900-01	1.612	10.90	576.5
221	.00000	.10300-01	731.00	.1408	.1037	.1673	.9278	.5735-02	.9252-02	.7410	5.093	551.1
221	.00000	.15000-01	732.00	.1144	.8510-01	.1349	.9278	.4708-02	.7463-02	.6270	4.262	547.2
221	.00000	.20000-01	733.00	.1433	.1044	.1260	.9684	.5774-02	.6970-02	.7230	4.947	555.0
221	.00000	.25000-01	734.00	.2969	.2023	.2575	.9663	.1119-01	.1424-01	1.194	8.014	573.6
221	.00000	.30000-01	735.00	.5154	.3241	.4395	.9646	.1792-01	.2430-01	1.642	11.01	588.6
221	.00000	.40000-01	737.00	.5182	.3433	.4572	.9631	.1899-01	.2528-01	1.913	12.28	579.5
221	.00000	.45000-01	738.00	.5252	.3457	.4700	.9613	.1912-01	.2599-01	1.903	12.39	580.7
221	.00000	.60000-01	739.00	.3912	.2514	.3659	.9562	.1390-01	.2024-01	1.323	8.723	585.1
221	.00000	.70000-01	740.00	.3462	.2252	.3353	.9530	.1245-01	.1854-01	1.212	8.050	582.9
221	.00000	.80000-01	741.00	.2890	.1901	.2888	.9501	.1051-01	.1597-01	1.044	7.462	580.9
221	.00000	.10000+00	742.00	.2585	.1767	.2719	.9447	.9775-02	.1504-01	1.051	6.932	572.7
221	.00000	.12500	743.00	.1942	.1308	.2173	.9390	.7234-02	.1202-01	.7530	5.398	576.1
221	.00000	.15000	744.00	.1587	.1102	.1836	.9346	.6093-02	.1015-01	.6780	4.662	569.0
221	.00000	.17500	745.00	.1130	.8010-01	.1335	.9313	.4431-02	.7382-02	.5180	3.863	563.3
221	.00000	.20000	746.00	.6440-01	.4770-01	.7550-01	.9291	.2636-02	.4175-02	.3450	2.466	549.3

(RV7F35)

IH41(AEDC V41A-A4A) O T S (CONFIG 4) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
221	.00000	.21500	747.00	.7450-01	.5430-01	.8880-01	.9283	.3005-02	.4912-02	.3780	2.608	554.6
221	.00000	.23000	748.00	.6160-01	.4490-01	.7380-01	.9279	.2483-02	.4081-02	.3110	2.289	555.0
221	.00000	.24000	749.00	.4990-01	.3640-01	.5970-01	.9278	.2015-02	.3301-02	.2540	1.908	554.2
221	.00000	.25000	750.00	.2650-01	.1950-01	.3150-01	.9278	.1078-02	.1743-02	.1390	1.120	551.5
221	.00000	.30000	751.00	.5870-01	.4310-01	.6990-01	.9278	.2384-02	.3868-02	.3050	1.998	552.2
221	.00000	.40000	753.00	.7240-01	.5330-01	.8600-01	.9278	.2948-02	.4758-02	.3810	2.442	551.1
221	.00000	.50000	754.00	.6600-01	.4800-01	.7930-01	.9278	.2652-02	.4384-02	.3300	2.148	555.9
221	.00000	.60000	755.00	.6200-01	.4480-01	.7490-01	.9278	.2476-02	.4140-02	.3030	1.929	558.1
221	.00000	.70000	756.00	.6130-01	.4370-01	.7450-01	.9278	.2419-02	.4122-02	.2880	1.884	561.4
221	.00000	.80000	757.00	.5140-01	.3680-01	.6230-01	.9278	.2037-02	.3447-02	.2450	1.522	560.2
221	.00000	.90000	758.00	.3510-01	.2490-01	.4280-01	.9278	.1377-02	.2368-02	.1620	1.037	562.9
221	55.000	.22000	759.00	.6870-01	.5020-01	.8190-01	.9281	.2775-02	.4532-02	.3500	2.596	554.1
221	55.000	.25000	760.00	.3110-01	.2290-01	.3700-01	.9278	.1268-02	.2047-02	.1640	1.279	551.2
221	55.000	.27000	761.00	.3390-01	.2410-01	.3940-01	.9278	.1333-02	.2182-02	.1680	1.247	554.0
221	55.000	.30000	762.00	.6430-01	.4730-01	.7660-01	.9278	.2614-02	.4235-02	.3350	2.011	552.0
221	55.000	.32000	763.00	.7540-01	.5540-01	.8990-01	.9278	.3065-02	.4967-02	.3930	2.319	552.0
221	55.000	.34000	764.00	.7720-01	.5630-01	.9250-01	.9278	.3113-02	.5118-02	.3900	2.306	554.9
221	55.000	.35000	765.00	.9690-01	.7010-01	.1167	.9278	.3875-02	.6453-02	.4760	2.849	557.3
221	55.000	.38000	766.00	.1052	.7500-01	.1280	.9278	.4150-02	.7079-02	.4930	2.973	561.6
221	55.000	.40000	767.00	.1111	.7890-01	.1356	.9278	.4366-02	.7497-02	.5140	3.184	562.7
221	67.500	.23000	768.00	.6730-01	.4920-01	.8040-01	.9279	.2722-02	.4447-02	.3440	2.554	553.8
221	67.500	.25000	769.00	.3180-01	.2340-01	.3780-01	.9278	.1293-02	.2089-02	.1670	1.293	551.4
221	67.500	.27000	770.00	.4310-01	.3150-01	.5150-01	.9278	.1744-02	.2847-02	.2210	1.607	553.5
221	67.500	.29000	771.00	.4810-01	.3530-01	.5720-01	.9278	.1953-02	.3165-02	.2510	1.550	551.9
221	67.500	.30000	772.00	.8740-01	.6350-01	.1049	.9278	.3509-02	.5804-02	.4360	2.653	553.0
221	67.500	.31000	773.00	.9160-01	.6650-01	.1101	.9278	.3677-02	.6091-02	.4560	2.749	556.3
221	67.500	.32000	774.00	.1033	.7520-01	.1251	.9278	.4106-02	.6918-02	.4980	2.964	561
221	67.500	.33000	775.00	.1124	.8010-01	.1358	.9278	.4431-02	.7567-02	.5250	3.142	561
221	67.500	.33500	776.00	.1126	.7920-01	.1335	.9278	.4378-02	.7457-02	.5010	3.002	565.8
221	67.500	.33500	777.00	.1203	.8540-01	.1602	.9278	.4642-02	.8259-02	.5490	3.281	569.2
221	67.500	.34000	778.00	.1431	.9960-01	.1790	.9278	.5481-02	.9839-02	.5960	3.559	571.0
221	67.500	.34500	779.00	.1545	.1054	.1948	.9278	.5927-02	.1077-01	.6230	3.728	573.3
221	67.500	.35000	780.00	.1523	.1035	.1885	.9278	.5858-02	.1043-01	.6070	3.645	572.9
221	67.500	.35500	781.00	.1509	.1034	.1850	.9278	.5809-02	.1023-01	.5920	3.606	569.4
221	67.500	.36500	784.00	.1393	.9990-01	.1715	.9278	.5418-02	.9483-02	.5210	3.179	568.7
221	67.500	.37500	787.00	.1284	.9210-01	.1570	.9278	.5042-02	.8869-02	.4890	2.985	569.5
221	67.500	.38500	790.00	.1185	.8500-01	.1438	.9278	.4728-02	.8324-02	.4590	2.801	569.5
221	67.500	.39500	793.00	.1095	.7850-01	.1328	.9278	.4372-02	.7693-02	.4240	2.587	569.2
221	67.500	.40500	796.00	.1013	.7260-01	.1228	.9278	.3978-02	.6999-02	.3860	2.355	569.2
221	67.500	.41500	799.00	.9370-01	.6720-01	.1136	.9278	.3681-02	.6476-02	.3570	2.178	569.2
221	67.500	.42500	802.00	.8670-01	.6220-01	.1052	.9278	.3406-02	.5992-02	.3300	2.014	569.2
221	67.500	.43500	805.00	.8020-01	.5750-01	.9730-01	.9278	.3150-02	.5542-02	.3050	1.861	569.2
221	67.500	.44500	808.00	.7420-01	.5320-01	.9000-01	.9278	.2914-02	.5127-02	.2820	1.721	569.2
221	67.500	.45500	811.00	.6860-01	.4920-01	.8320-01	.9278	.2695-02	.4741-02	.2610	1.592	569.2
221	67.500	.46500	814.00	.6350-01	.4550-01	.7700-01	.9278	.2494-02	.4387-02	.2410	1.472	569.2
221	67.500	.47500	817.00	.5870-01	.4210-01	.7120-01	.9278	.2306-02	.4056-02	.2230	1.361	569.2
221	67.500	.48500	820.00	.5430-01	.3890-01	.6590-01	.9278	.2133-02	.3752-02	.2060	1.258	569.2
221	67.500	.49500	823.00	.5020-01	.3600-01	.6090-01	.9278	.1972-02	.3469-02	.1910	1.165	569.2
221	67.500	.50500	826.00	.4640-01	.3330-01	.5630-01	.9278	.1823-02	.3207-02	.1760	1.077	569.2
221	67.500	.51500	829.00	.4290-01	.3080-01	.5210-01	.9278	.1686-02	.2966-02	.1630	.995	569.2
221	67.500	.52500	832.00	.3970-01	.2850-01	.4820-01	.9278	.1560-02	.2744-02	.1510	.921	569.2
221	67.500	.53500	835.00	.3670-01	.2640-01	.4460-01	.9278	.1443-02	.2539-02	.1400	.852	569.2
221	67.500	.54500	838.00	.3400-01	.2440-01	.4130-01	.9278	.1336-02	.2351-02	.1290	.789	569.2
221	67.500	.55500	841.00	.3150-01	.2260-01	.3820-01	.9278	.1237-02	.2176-02	.1200	.730	569.2
221	67.500	.56500	844.00	.2910-01	.2090-01	.3540-01	.9278	.1145-02	.2015-02	.1110	.676	569.2
221	67.500	.57500	847.00	.2700-01	.1940-01	.3280-01	.9278	.1062-02	.1868-02	.1030	.627	569.2
221	67.500	.58500	850.00	.2500-01	.1800-01	.3040-01	.9278	.9840-03	.1731-02	.9540-01	.581	569.2
221	67.500	.59500	853.00	.2320-01	.1670-01	.2820-01	.9278	.9130-03	.1606-02	.8850-01	.539	569.2
221	67.500	.60500	856.00	.2150-01	.1550-01	.2620-01	.9278	.8470-03	.1490-02	.8210-01	.500	569.2
221	67.500	.61500	859.00	.1990-01	.1440-01	.2430-01	.9278	.7840-03	.1379-02	.7600-01	.463	569.2
221	67.500	.62500	862.00	.1850-01	.1340-01	.2260-01	.9278	.7280-03	.1281-02	.7060-01	.430	569.2
221	67.500	.63500	865.00	.1720-01	.1240-01	.2100-01	.9278	.6770-03	.1191-02	.6560-01	.400	569.2
221	67.500	.64500	868.00	.1600-01	.1160-01	.1950-01	.9278	.6300-03	.1107-02	.6100-01	.371	569.2
221	67.500	.65500	871.00	.1490-01	.1080-01	.1820-01	.9278	.5860-03	.1030-02	.5680-01	.345	569.2
221	67.500	.66500	874.00	.1390-01	.1010-01	.1690-01	.9278	.5470-03	.9610-03	.5300-01	.322	569.2
221	67.500	.67500	877.00	.1300-01	.9410-02	.1580-01	.9278	.5110-03	.8980-03	.4950-01	.301	569.2
221	67.500	.68500	880.00	.1210-01	.8770-02	.1470-01	.9278	.4760-03	.8370-03	.4610-01	.280	569.2
221	67.500	.69500	883.00	.1130-01	.8190-02	.1370-01	.9278	.4440-03	.7810-03	.4310-01	.262	569.2
221	67.500	.70500	886.00	.1060-01	.7680-02	.1280-01	.9278	.4160-03	.7320-03	.4040-01	.245	569.2
221	67.500	.71500	889.00	.9900-02	.7170-02	.1200-01	.9278	.3890-03	.6840-03	.3770-01	.229	569.2
221	67.500	.72500	892.00	.9250-02	.6700-02	.1120-01	.9278	.3630-03	.6390-03	.3520-01	.214	569.2
221	67.500	.73500	895.00	.8640-02	.6260-02	.1050-01	.9278	.3400-03	.5980-03	.3300-01	.200	569.2
221	67.500	.74500	898.00	.8070-02	.5850-02	.9810-02	.9278	.3180-03	.5590-03	.3080-01	.187	569.2
221	67.500	.75500	901.00	.7540-02	.5460-02	.9160-02	.9278	.2970-03	.5220-03	.2880-01	.175	569.2
221	67.500	.76500	904.00	.7040-02	.5100-02	.8560-02	.9278	.2770-03	.4870-03	.2690-01	.163	569.2
221	67.500	.77500	907.00	.6570-02	.4760-02	.7990-02	.9278	.2590-03	.4550-03	.2510-01	.153	569.2
221	67.500	.78500	910.00	.6140-02	.4450-02	.7460-02	.9278	.2420-03	.4250-03	.2340-01	.142	569.2
221	67.500	.79500	913.00	.5730-02	.4150-02	.6960-02	.9278	.2260-03	.3970-03	.2190-01	.133	569.2
221	67.500	.80500	916.00	.5350-02	.3880-02	.6500-02	.9278	.2110-03	.3710-03	.2040-01	.124	569.2
221	67.500	.81500	919.00	.5000-02	.3620-02	.6070-02	.9278	.1970-03	.3460-03	.1910-01	.116	569.2
221	67.500	.82500	922.00	.4670-02	.3380-02	.5670-02	.9278	.1840-03	.3230-03	.1780-01	.108	569.2
221	67.500	.83500	925.00	.4360-02	.3160-02	.5290-02	.9278	.1720-03	.3020-03	.1660-01	.101	569.2
221	67.500	.84500	928.00	.4070-02	.2950-02	.4940-02	.9278	.1600-03	.2810-03	.1550-01	.094	569.2
221	67.500	.85500	931.00	.3800-02	.2750-02	.4610-02	.9278	.1490-03	.2620-03	.1440-01	.088	569.2
221	67.500	.86500	934.00	.3540-02	.2570-02	.4300-02	.9278	.1390-03	.2440-03	.1340-01	.082	569.2
221	67.500	.87500	937.00	.3300-02	.2390-02	.4010-02	.9278	.1300-03	.2280-03	.1250-01	.076	569.2
221	67.500	.88500	940.00	.3070-02	.2230-02	.3740-02	.9278	.1210-03	.2120-03	.1170-01	.071	569.2
221	67.500	.89500	943.00	.2860-02	.2080-02	.3490-02	.9278	.1130-03	.1980-03	.1090-01	.066	569.2
221	67.500	.90500	946.00	.2670-02	.1940-02	.3250-02	.9278	.1050-03	.1840-03	.1010-01	.062	569.2
221	67.500	.91500	949.00	.2490-02	.1810-02	.3030-02	.9278	.9810-04	.1720-03	.9450-02	.057	569.2
221	67.500	.92500	952.00	.2320-02	.1690-02	.2830-02	.9278	.9150-04	.1600-03	.8820-02	.053	569.2
221	67.500	.93500	955.00	.2170-02	.1580-02	.2640-02	.9278	.8540-04	.1500-03	.8230-02	.050	569.2
221	67.500	.94500	958.00	.2020-02	.1470-02	.2460-02	.9278	.7970-04	.1400-03	.7680-02	.046	569.2
221	67.500	.95500	961.00	.1890-02	.1370-02	.2290-02	.9278	.7440-04	.1300-03	.7170-02	.043	569.2
221	67.500	.96500	964.00	.1760-02	.1280-02	.2140-02	.9278	.6940-04	.1220-03	.6690-02	.040	569.2
221	67.500	.97500	967.00	.1650-02	.1190-02	.1990-02	.9278	.6480-04	.1140-03	.6240-02	.038	569.2
221	67.500	.98500	970.00	.1540-02	.1120-02	.1860-02	.9278	.6050-04	.1060-03	.5830-02	.035	569.2
221	67.500	.99500	973.00	.1440-02	.1040-02	.1740-02	.9278	.5650-04	.9940-04	.5440-02	.033	569.2

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RVTF3D)

IH41(AEDC V41A-A4A) O T S (CONFIG 4) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
221	67.500	.80000	792.00	.5800-01	.4030-01	.7210-01	.9278	.2228-02	.3987-02	.2420	1.541	569.0
221	67.500	.90000	793.00	.5210-01	.3510-01	.6640-01	.9278	.1942-02	.3672-02	.2020	1.287	576.0
221	78.000	.27000	794.00	.4240-01	.3100-01	.5060-01	.9278	.1715-02	.2801-02	.2170	1.544	553.6
221	78.000	.29000	795.00	.8070-01	.5830-01	.9730-01	.9278	.3224-02	.5380-02	.0000	.0000	187.9
222	78.000	.30000	796.00	.1212	.8570-01	.1485	.9278	.4741-02	.8213-02	.5510	3.310	564.1
222	78.000	.31000	797.00	.1515	.1031	.1914	.9278	.5700-02	.1059-01	.6060	3.627	573.9
222	78.000	.32000	798.00	.1794	.1192	.2312	.9278	.6594-02	.1278-01	.6690	3.968	578.8
222	78.000	.32500	799.00	.1957	.1298	.2525	.9278	.7180-02	.1396-01	.7260	4.318	579.2
222	78.000	.33000	800.00	.2161	.1414	.2823	.9278	.7820-02	.1561-01	.7700	4.571	581.9
222	78.000	.33500	801.00	.2384	.1551	.3131	.9278	.8579-02	.1731-01	.8350	4.959	582.9
222	78.000	.34000	802.00	.2424	.1589	.3162	.9278	.8789-02	.1749-01	.8680	5.157	581.5
222	78.000	.34500	803.00	.2260	.1526	.2875	.9278	.8439-02	.1590-01	.8840	5.280	575.6
222	78.000	.35000	804.00	.2155	.1480	.2703	.9278	.8182-02	.1495-01	.8680	5.316	571.8
222	78.000	.35500	805.00	.2066	.1436	.2564	.9278	.7943-02	.1418-01	.8670	5.318	568.6
222	78.000	.36000	806.00	.1952	.1357	.2423	.9278	.7505-02	.1340-01	.8380	5.038	568.5
222	78.000	.37000	808.00	.1342	.9470-01	.1648	.9278	.5235-02	.9112-02	.6040	3.660	564.8
222	78.000	.37500	809.00	.1148	.8150-01	.1403	.9278	.4506-02	.7756-02	.5280	3.201	563.1
222	78.000	.38000	810.00	.1017	.7300-01	.1231	.9278	.4036-02	.6809-02	.4870	2.972	559.7
222	78.000	.39000	811.00	.8220-01	.5960-01	.9890-01	.9278	.3294-02	.5472-02	.4060	2.492	555.9
222	78.000	.40000	812.00	.2685	.1661	.3096	.9278	.9187-02	.2044-01	.9200	4.941	591.1
219	90.000	.40000-01	985.00	.5024	.3286	.4411	.9631	.1817-01	.2439-01	1.784	11.41	590.9
219	90.000	.50000-01	986.00	.5131	.3362	.4661	.9596	.1959-01	.2577-01	1.831	11.64	580.6
219	90.000	.60000-01	987.00	.4118	.2604	.3840	.9562	.1440-01	.2123-01	1.330	8.584	586.7
219	90.000	.70000-01	988.00	.3262	.2123	.3259	.9501	.1174-01	.1802-01	1.141	7.547	581.9
219	90.000	.80000-01	989.00	.3262	.9920-01	.1702	.9346	.5483-02	.9413-02	.5830	4.227	572.7
219	90.000	.15000	991.00	.1456	.5700-01	.6810-01	.9278	.2304-02	.3764-02	.2920	2.352	553.7
219	90.000	.20000	814.00	.5700-01	.4170-01	.4770-01	.9278	.1625-02	.2637-02	.2080	1.475	552.2
219	90.000	.25000	816.00	.4090-01	.2940-01	.3370-01	.9278	.1231-02	.1981-02	.1780	3.549	571.0
219	90.000	.27000	817.00	.1390	.9670-01	.1739	.9278	.8403-02	.1350-01	.7940	4.759	565.8
219	90.000	.30000	818.00	.2375	.1520	.3165	.9278	.9928-02	.2040-01	.9500	5.651	584.5
219	90.000	.31000	819.00	.2785	.1795	.3688	.9278	.9660-02	.1969-01	.9360	5.557	583.4
219	90.000	.32000	820.00	.2631	.1747	.3542	.9278	.1016-01	.2145-01	.9480	5.604	587.0
222	90.000	.32500	821.00	.2892	.1838	.3880	.9278	.1068-01	.2337-01	.9660	5.714	589.8
222	90.000	.33000	822.00	.3035	.1931	.4225	.9278	.1218-01	.2583-01	1.132	6.690	587.3
222	90.000	.34000	824.00	.3474	.2203	.4671	.9278	.1370-01	.3014-01	1.233	7.296	590.2
222	90.000	.34500	825.00	.3981	.2477	.5450	.9278	.1478-01	.4575-01	1.073	6.291	607.7
222	90.000	.35000	826.00	.5032	.2673	.8274	.9278	.1010-01	.2610-01	.8090	4.749	600.2
222	90.000	.36000	828.00	.3174	.1826	.4721	.9278	.8365-02	.1634-01	.8420	5.007	579.6
222	90.000	.36500	829.00	.2285	.1513	.2954	.9278	.6690-02	.1180-01	.7590	4.563	566.9
222	90.000	.37000	830.00	.1728	.1210	.2134	.9278	.5175-02	.8844-02	.6130	3.707	561.9
222	90.000	.37500	831.00	.1313	.9360-01	.1599	.9278	.3596-02	.5877-02	.4550	2.765	553.7
222	90.000	.38000	832.00	.8890-01	.6500-01	.1063	.9278	.2467-02	.3932-02	.3250	2.002	548.5
222	90.000	.39000	833.00	.6010-01	.4460-01	.7110-01	.9278	.3109-02	.5038-02	.3990	2.457	552.0
222	90.000	.40000	834.00	.7650-01	.5620-01	.9110-01	.9278					

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F35)

IH41(AEDC V41A-A4A) O T S (CONFIG 4) TUNNEL DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/LBM FT2SEC	H(TAW) BTU/LBM FT2SEC			TW DEG. R
222	90.000	.50000	835.00	.3470-01	.2520-01	.4160-01	.9278	.1396-02	.2298-02			555.2
222	90.000	.60000	836.00	.6470-01	.4650-01	.7830-01	.9278	.2569-02	.4231-02			559.5
222	90.000	.70000	837.00	.8220-01	.5680-01	.1025	.9278	.3136-02	.5164-02			561.3
222	90.000	.80000	838.00	.9290-01	.6510-01	.1148	.9278	.3579-02	.5896-02			562.9
222	90.000	.90000	839.00	.1484	.9850-01	.1915	.9278	.5446-02	.8969-02			563.0
222	112.50	.23000	840.00	.5260-01	.4300-01	.7460-01	.9279	.2543-02	.4189-02			563.0
222	112.50	.25000	841.00	.3660-01	.2520-01	.4230-01	.9278	.1443-02	.2377-02			563.0
222	112.50	.30000	843.00	.9450-01	.6860-01	.1138	.9278	.3979-02	.6553-02			563.0
222	112.50	.33000	844.00	.1077	.8219	.1868	.9278	.6533-02	.1076-01			563.0
222	112.50	.35700	845.00	.2260	.1554	.2615	.9278	.9211-02	.1517-01			563.0
222	112.50	.37000	846.00	.1852	.1105	.2004	.9278	.6552-02	.1079-01			563.0
222	112.50	.40000	847.00	.7750-01	.5740-01	.9278	.9278	.3304-02	.5441-02			563.0
222	112.50	.45000	848.00	.5350-01	.3770-01	.6240-01	.9278	.2172-02	.3577-02			563.0
222	112.50	.50000	849.00	.3810-01	.2660-01	.4400-01	.9278	.1532-02	.2523-02			563.0
222	112.50	.55000	850.00	.2810-01	.1960-01	.3240-01	.9278	.1128-02	.1858-02			563.0
222	112.50	.60000	851.00	.2120-01	.1480-01	.2450-01	.9278	.8530-03	.1405-02			563.0
222	112.50	.65000	852.00	.1630-01	.1140-01	.1890-01	.9278	.6570-03	.1082-02			563.0
222	112.50	.70000	853.00	.1270-01	.8870-02	.1470-01	.9278	.5110-03	.8419-03			563.0
222	112.50	.75000	854.00	.1000-01	.6980-02	.1160-01	.9278	.4030-03	.6630-03			563.0
222	112.50	.80000	855.00	.7970-02	.5560-02	.9210-02	.9278	.3210-03	.5284-03			563.0
222	112.50	.85000	856.00	.6410-02	.4470-02	.7410-02	.9278	.2580-03	.4249-03			563.0
222	112.50	.90000	857.00	.5200-02	.3630-02	.6010-02	.9278	.2090-03	.3447-03			563.0
222	112.50	.95000	858.00	.4260-02	.2970-02	.4920-02	.9278	.1710-03	.2822-03			563.0
222	112.50	1.00000	859.00	.3510-02	.2450-02	.4060-02	.9278	.1410-03	.2327-03			563.0
222	112.50	1.05000	860.00	.2910-02	.2030-02	.3360-02	.9278	.1170-03	.1928-03			563.0
222	112.50	1.10000	861.00	.2420-02	.1690-02	.2800-02	.9278	.9730-04	.1604-03			563.0
222	112.50	1.15000	862.00	.2030-02	.1410-02	.2340-02	.9278	.8160-04	.1346-03			563.0
222	112.50	1.20000	863.00	.1710-02	.1190-02	.1970-02	.9278	.6870-04	.1133-03			563.0
222	112.50	1.25000	864.00	.1450-02	.1010-02	.1670-02	.9278	.5830-04	.9610-04			563.0
222	112.50	1.30000	865.00	.1230-02	.8600-03	.1420-02	.9278	.4950-04	.8160-04			563.0
222	112.50	1.35000	866.00	.1050-02	.7320-03	.1210-02	.9278	.4220-04	.6950-04			563.0
222	112.50	1.40000	867.00	.8980-03	.6260-03	.1030-02	.9278	.3610-04	.5950-04			563.0
222	112.50	1.45000	868.00	.7690-03	.5360-03	.8860-03	.9278	.3090-04	.5093-04			563.0
222	112.50	1.50000	869.00	.6590-03	.4590-03	.7590-03	.9278	.2650-04	.4362-04			563.0
222	112.50	1.55000	870.00	.5650-03	.3940-03	.6510-03	.9278	.2270-04	.3740-04			563.0
222	112.50	1.60000	871.00	.4850-03	.3380-03	.5590-03	.9278	.1950-04	.3212-04			563.0
222	112.50	1.65000	872.00	.4170-03	.2910-03	.4810-03	.9278	.1680-04	.2764-04			563.0
222	112.50	1.70000	873.00	.3590-03	.2500-03	.4140-03	.9278	.1440-04	.2378-04			563.0
222	112.50	1.75000	874.00	.3090-03	.2160-03	.3570-03	.9278	.1240-04	.2049-04			563.0
222	112.50	1.80000	875.00	.2660-03	.1860-03	.3080-03	.9278	.1070-04	.1766-04			563.0
222	112.50	1.85000	876.00	.2290-03	.1600-03	.2650-03	.9278	.9210-05	.1521-04			563.0
222	112.50	1.90000	877.00	.1970-03	.1380-03	.2280-03	.9278	.7930-05	.1309-04			563.0
222	112.50	1.95000	878.00	.1700-03	.1190-03	.1970-03	.9278	.6830-05	.1128-04			563.0
222	112.50	2.00000	879.00	.1460-03	.1020-03	.1690-03	.9278	.5880-05	.9710-05			563.0
222	112.50	2.05000	880.00	.1260-03	.8800-04	.1460-03	.9278	.5070-05	.8370-05			563.0
222	112.50	2.10000	881.00	.1080-03	.7560-04	.1250-03	.9278	.4350-05	.7190-05			563.0
222	112.50	2.15000	882.00	.9300-04	.6500-04	.1080-03	.9278	.3740-05	.6180-05			563.0
222	112.50	2.20000	883.00	.8000-04	.5590-04	.9270-04	.9278	.3220-05	.5310-05			563.0
222	112.50	2.25000	884.00	.6880-04	.4810-04	.7970-04	.9278	.2770-05	.4570-05			563.0
222	112.50	2.30000	885.00	.5920-04	.4140-04	.6860-04	.9278	.2380-05	.3930-05			563.0
222	112.50	2.35000	886.00	.5090-04	.3560-04	.5900-04	.9278	.2050-05	.3380-05			563.0
222	112.50	2.40000	887.00	.4380-04	.3060-04	.5080-04	.9278	.1760-05	.2910-05			563.0
222	112.50	2.45000	888.00	.3760-04	.2630-04	.4360-04	.9278	.1520-05	.2500-05			563.0
222	112.50	2.50000	889.00	.3240-04	.2270-04	.3760-04	.9278	.1310-05	.2160-05			563.0
222	112.50	2.55000	890.00	.2790-04	.1950-04	.3240-04	.9278	.1130-05	.1860-05			563.0
222	112.50	2.60000	891.00	.2400-04	.1680-04	.2790-04	.9278	.9710-06	.1600-05			563.0
222	112.50	2.65000	892.00	.2070-04	.1450-04	.2400-04	.9278	.8370-06	.1380-05			563.0
222	112.50	2.70000	893.00	.1780-04	.1250-04	.2070-04	.9278	.7210-06	.1190-05			563.0
222	112.50	2.75000	894.00	.1540-04	.1080-04	.1780-04	.9278	.6220-06	.1020-05			563.0
222	112.50	2.80000	895.00	.1320-04	.9300-05	.1540-04	.9278	.5360-06	.8830-06			563.0
222	112.50	2.85000	896.00	.1140-04	.8000-05	.1320-04	.9278	.4620-06	.7610-06			563.0
222	112.50	2.90000	897.00	.9810-05	.6880-05	.1140-04	.9278	.3980-06	.6560-06			563.0
222	112.50	2.95000	898.00	.8440-05	.5920-05	.9810-05	.9278	.3430-06	.5650-06			563.0
222	112.50	3.00000	899.00	.7260-05	.5090-05	.8440-05	.9278	.2950-06	.4860-06			563.0
222	112.50	3.05000	900.00	.6240-05	.4380-05	.7260-05	.9278	.2540-06	.4180-06			563.0
222	112.50	3.10000	901.00	.5370-05	.3770-05	.6240-05	.9278	.2180-06	.3600-06			563.0
222	112.50	3.15000	902.00	.4620-05	.3240-05	.5370-05	.9278	.1880-06	.3090-06			563.0
222	112.50	3.20000	903.00	.3970-05	.2790-05	.4620-05	.9278	.1610-06	.2660-06			563.0
222	112.50	3.25000	904.00	.3420-05	.2400-05	.3970-05	.9278	.1390-06	.2290-06			563.0
222	112.50	3.30000	905.00	.2940-05	.2060-05	.3420-05	.9278	.1190-06	.1970-06			563.0
222	112.50	3.35000	906.00	.2530-05	.1780-05	.2940-05	.9278	.1030-06	.1700-06			563.0
222	112.50	3.40000	907.00	.2180-05	.1530-05	.2530-05	.9278	.8850-07	.1460-06			563.0
222	112.50	3.45000	908.00	.1870-05	.1320-05	.2180-05	.9278	.7620-07	.1260-06			563.0
222	112.50	3.50000	909.00	.1610-05	.1130-05	.1870-05	.9278	.6560-07	.1080-06			563.0
222	112.50	3.55000	910.00	.1380-05	.9720-06	.1610-05	.9278	.5650-07	.9310-07			563.0
222	112.50	3.60000	911.00	.1190-05	.8360-06	.1380-05	.9278	.4860-07	.8010-07			563.0
222	112.50	3.65000	912.00	.1020-05	.7190-06	.1190-05	.9278	.4180-07	.6890-07			563.0
222	112.50	3.70000	913.00	.8790-06	.6180-06	.1020-05	.9278	.3600-07	.5930-07			563.0
222	112.50	3.75000	914.00	.7560-06	.5320-06	.8790-06	.9278	.3090-07	.5100-07			563.0
222	112.50	3.80000	915.00	.6500-06	.4570-06	.7560-06	.9278	.2660-07	.4390-07			563.0
222	112.50	3.85000	916.00	.5590-06	.3930-06	.6500-06	.9278	.2290-07	.3770-07			563.0
222	112.50	3.90000	917.00	.4810-06	.3380-06	.5590-06	.9278	.1970-07	.3240-07			563.0
222	112.50	3.95000	918.00	.4140-06	.2910-06	.4810-06	.9278	.1700-07	.2790-07			563.0
222	112.50	4.00000	919.00	.3560-06	.2500-06	.4140-06	.9278	.1460-07	.2400-07			563.0

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F35)

IH41(AEDC V41A-A4A) O T S (CONFIG 4) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
222	135.00	.55000	881.00	.1021	.7190-01	.1255	.9278	.3974-02	.6939-02	.4570	3.074	565.3
222	135.00	.60000	882.00	.8840-01	.6330-01	.1072	.9278	.3501-02	.6930-02	.4480	2.801	563.4
222	135.00	.65000	883.00	.9980-01	.7090-01	.1219	.9278	.3923-02	.6740-02	.4410	3.[illegible]	562.9
221	135.00	.70000	884.00	.6600-01	.4700-01	.8070-01	.9278	.2600-02	.6440-02	.4240	[illegible]	561.8
220	135.00	.75000	885.00	.9730-01	.6810-01	.1201	.9278	.3787-02	.6644-02	.4360	[illegible]	564.4
220	135.00	.80000	886.00	.8900-01	.6290-01	.1089	.9278	.3501-02	.6832-02	.4480	[illegible]	565.6
220	135.00	.85000	887.00	.7590-01	.5980-01	.9460-01	9.30	.3079-02	.6834-02	.4480	[illegible]	565.6
219	135.00	.87000	888.00	.9400-01	.6570-01	.1159	.9278	.3839-02	.6826-02	.4480	[illegible]	565.6
219	135.00	.88000	889.00	.1219	.8640-01	.604	.9278	.4955-02	.6826-02	.4480	[illegible]	565.6
219	135.00	.89000	890.00	.183	.9260-01	.145-	.9278	.5316-02	.6826-02	.4480	[illegible]	565.6
219	135.00	.90000	891.00	.2	.9060-01	.16-	.9278	.5105-02	.6826-02	.4480	[illegible]	565.6
219	135.00	.91000	892.00	.54	.7510-01	.1011	.9278	.6105-02	.6826-02	.4480	[illegible]	565.6
219	135.00	.92000	893.00	.30	.8580-01	.1854	.9278	.5105-02	.6826-02	.4480	[illegible]	565.6
219	135.00	.93000	894.00	.7180-01	.5460-01	.9420-01	.9278	.3974-02	.6826-02	.4480	[illegible]	565.6
219	135.00	.94000	895.00	.1561	.1184	.2057	.9278	.6105-02	.6826-02	.4480	[illegible]	565.6
219	135.00	.95000	896.00	.1118	.8475	.1471	.9278	.4372-02	.6826-02	.4480	[illegible]	565.6
219	135.00	.96000	897.00	.2795	.2119	.3677	.9278	.1093-01	.6826-02	.4480	[illegible]	565.6
219	135.00	.97000	898.00	.188	.1425	.2474	.9278	.7355-02	.6826-02	.4480	[illegible]	565.6
219	135.00	.98000	899.00	.1178	.8931	.155	.9278	.4608-02	.6826-02	.4480	[illegible]	565.6
219	135.00	.99000	900.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	.99500	901.00	.1116	.8460-01	.1469	.9278	.4367-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.0000	902.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.0100	903.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.0200	904.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.0300	905.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.0400	906.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.0500	907.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.0600	908.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.0700	909.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.0800	910.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.0900	911.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.1000	912.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.1100	913.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.1200	914.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.1300	915.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.1400	916.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.1500	917.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.1600	918.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.1700	919.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.1800	920.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.1900	921.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.2000	922.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.2100	923.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.2200	924.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.2300	925.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.2400	926.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.2500	927.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.2600	928.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.2700	929.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.2800	930.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.2900	931.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.3000	932.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.3100	933.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.3200	934.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.3300	935.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.3400	936.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.3500	937.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.3600	938.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.3700	939.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.3800	940.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.3900	941.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.4000	942.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.4100	943.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.4200	944.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.4300	945.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.4400	946.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.4500	947.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.4600	948.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.4700	949.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.4800	950.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.4900	951.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.5000	952.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.5100	953.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.5200	954.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.5300	955.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.5400	956.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.5500	957.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.5600	958.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.5700	959.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.5800	960.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.5900	961.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.6000	962.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.6100	963.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.6200	964.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.6300	965.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.6400	966.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.6500	967.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.6600	968.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.6700	969.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.6800	970.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.6900	971.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.7000	972.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.7100	973.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.7200	974.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.7300	975.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.7400	976.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.7500	977.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.7600	978.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.7700	979.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.7800	980.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.7900	981.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.8000	982.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.8100	983.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.8200	984.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.8300	985.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.8400	986.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.8500	987.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.8600	988.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.8700	989.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.8800	990.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.8900	991.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.9000	992.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.9100	993.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.9200	994.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.9300	995.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.9400	996.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.9500	997.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.9600	998.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.9700	999.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.9800	1000.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	1.9900	1001.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.0000	1002.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.0100	1003.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.0200	1004.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.0300	1005.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.0400	1006.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.0500	1007.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.0600	1008.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.0700	1009.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.0800	1010.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.0900	1011.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.1000	1012.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.1100	1013.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.1200	1014.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.1300	1015.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.1400	1016.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.1500	1017.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.1600	1018.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.1700	1019.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.1800	1020.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.1900	1021.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.2000	1022.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.2100	1023.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.2200	1024.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.2300	1025.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.2400	1026.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.2500	1027.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.2600	1028.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.2700	1029.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.2800	1030.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.2900	1031.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.3000	1032.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.3100	1033.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.3200	1034.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.3300	1035.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.3400	1036.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.3500	1037.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.3600	1038.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.3700	1039.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.3800	1040.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.3900	1041.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.4000	1042.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.4100	1043.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.4200	1044.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.4300	1045.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.4400	1046.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.4500	1047.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.4600	1048.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.4700	1049.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.4800	1050.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.4900	1051.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.5000	1052.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.5100	1053.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.5200	1054.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.5300	1055.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.5400	1056.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.5500	1057.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.5600	1058.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.5700	1059.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.5800	1060.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.5900	1061.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.6000	1062.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.6100	1063.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.6200	1064.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.6300	1065.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.6400	1066.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.6500	1067.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.6600	1068.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.6700	1069.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.6800	1070.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.6900	1071.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.7000	1072.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.7100	1073.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.7200	1074.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.7300	1075.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.7400	1076.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.7500	1077.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.7600	1078.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.7700	1079.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.7800	1080.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.7900	1081.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.8000	1082.00	.1785	.1353	.2348	.9278	.6983-02	.6826-02	.4480	[illegible]	565.6
219	135.00	2.8100	1083.00	.1116	.8470-01	.1082	.9278	.4161-02	.6826-02	.4480

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F35)

IHM1(AEDC V41A-A4A) O T S (CONFIG 4) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
219	163.12	.41500	934.00	.1164	.8210-01	.1429	.9278	.4539-02	.7900-02	.5230	3.363	563.9
219	163.12	.42000	935.00	.1318	.9180-01	.1633	.9278	.5079-02	.9031-02	.5690	3.686	567.0
219	163.12	.43000	937.00	.1861	.1248	.2381	.9278	.6900-02	.1317-01	.7110	4.596	576.1
219	163.12	.44000	938.00	.2367	.1526	.3132	.9278	.8441-02	.1732-01	.8070	5.186	583.5
219	163.12	.44500	939.00	.2338	.1523	.3065	.9278	.8424-02	.1695-01	.8210	5.358	581.6
219	163.12	.45000	940.00	.2134	.1406	.2770	.9278	.7777-02	.1532-01	.7750	5.061	579.5
219	163.12	.50000	941.00	.1689	.1160	.2119	.9278	.6413-02	.1172-01	.6940	4.654	570.8
219	163.12	.60000	942.00	.1313	.9210-01	.1619	.9278	.5091-02	.8953-02	.5790	3.696	565.4
219	163.12	.70000	943.00	.8900-01	.6380-01	.1080	.9278	.3531-02	.5970-02	.4240	2.891	559.1
219	163.12	.80000	944.00	.6770-01	.4840-01	.8220-01	.9278	.2677-02	.4548-02	.3190	2.068	559.9
219	168.00	.35000	945.00	.5650-01	.4090-01	.6760-01	.9278	.2260-02	.3738-02	.2800	1.770	555.0
219	168.00	.36000	946.00	.7350-01	.5330- 1	.8940-01	.9278	.2946-02	.4891-02	.3630	2.299	555.8
219	168.00	.37000	947.00	.1000+00	.7100-01	.1222	.9278	.3926-02	.6757-02	.4590	2.936	562.1
219	168.00	.37500	948.00	.1026	.7300-01	.1251	.9278	.4035-02	.6919-02	.4740	3.002	561.5
219	168.00	.38000	950.00	.7510-01	.5430-01	.9060-01	.9278	.3003-02	.5009-02	.3680	2.359	556.7
219	168.00	.39000	951.00	.8370-01	.6000-01	.1015	.9278	.3317-02	.5614-02	.3970	2.562	559.3
219	168.00	.39500	952.00	.8320-01	.5950-01	.1010	.9278	.3292-02	.5598-02	.3930	2.494	559.8
219	168.00	.40000	953.00	.8970-01	.6390-01	.1093	.9278	.3534-02	.6047-02	.4170	2.692	561.1
219	168.00	.40500	954.00	.9390-01	.6660-01	.1148	.9278	.3672-02	.6350-02	.4270	2.753	562.8
219	168.00	.41000	955.00	.1050	.7370-01	.1293	.9278	.4078-02	.7148-02	.4650	3.005	565.0
219	168.00	.41500	956.00	.1232	.8570-01	.1530	.9278	.4741-02	.8459-02	.5290	3.425	567.5
219	168.00	.42000	957.00	.1435	.9880-01	.1796	.9278	.5465-02	.9930-02	.5960	3.866	570.2
219	168.00	.42500	958.00	.1579	.1097	.1978	.9278	.6010-02	.1094-01	.6540	4.242	570.3
219	168.00	.43000	959.00	.2109	.1390	.2754	.9278	.7633-02	.1523-01	.7500	4.828	580.8
219	168.00	.44000	960.00	.2479	.1617	.3250	.9278	.8939-02	.1797-01	.8720	5.625	581.5
219	168.00	.44500	961.00	.2459	.1613	.3205	.9278	.8917-02	.1772-01	.8800	5.679	580.4
219	168.00	.45000	962.00	.2234	.1473	.2900	.9278	.8143-02	.1604-01	.8110	5.268	579.5
219	168.00	.45500	963.00	.2052	.1352	.2665	.9278	.7474-02	.1474-01	.7430	4.828	579.6
219	168.00	.46000	964.00	.2150	.1415	.2745	.9278	.7827-02	.1518-01	.7920	5.179	577.9
219	168.00	.46500	965.00	.2138	.1412	.2713	.9278	.7778-02	.1524-01	.7850	4.934	574.9
219	168.00	.47000	966.00	.2076	.1374	.2661	.9278	.7591-02	.1495-01	.7650	4.854	572.0
219	168.00	.47500	967.00	.2017	.1337	.2655	.9278	.7376-02	.1487-01	.7620	4.677	565.5
219	168.00	.48000	968.00	.1930	.1280	.2539	.9278	.7058-02	.1426-01	.7340	4.571	568.2
219	168.00	.48500	969.00	.1850	.1230	.2436	.9278	.6765-02	.1382-01	.7090	4.341	570.8
219	168.00	.49000	970.00	.1851	.1230	.2438	.9278	.6769-02	.1386-01	.7100	4.347	570.1
219	168.00	.49500	971.00	.1818	.1208	.2394	.9278	.6650-02	.1363-01	.6980	4.317	573.2
219	168.00	.50000	972.00	.1776	.1180	.2339	.9278	.6497-02	.1331-01	.6820	4.218	574.9
219	168.00	.50500	973.00	.1730	.1149	.2278	.9278	.6328-02	.1296-01	.6640	4.109	575.9
219	168.00	.51000	974.00	.1681	.1117	.2214	.9278	.6151-02	.1260-01	.6460	3.998	575.9
219	168.00	.51500	975.00	.1631	.1084	.2148	.9278	.5968-02	.1223-01	.6270	3.888	575.9
219	168.00	.52000	976.00	.1581	.1051	.2082	.9278	.5785-02	.1185-01	.6080	3.774	575.9
219	168.00	.52500	977.00	.1531	.1018	.2016	.9278	.5602-02	.1148-01	.5890	3.661	575.9
219	168.00	.53000	978.00	.1481	.9850-01	.1951	.9278	.5419-02	.1110-01	.5700	3.547	575.9
219	168.00	.53500	979.00	.1431	.9520-01	.1885	.9278	.5236-02	.1073-01	.5510	3.433	575.9
219	168.00	.54000	980.00	.1381	.9190-01	.1819	.9278	.5053-02	.1035-01	.5310	3.319	575.9
219	168.00	.54500	981.00	.1331	.8860-01	.1753	.9278	.4870-02	.9980-02	.5120	3.205	575.9
219	168.00	.55000	982.00	.1281	.8530-01	.1688	.9278	.4687-02	.9603-02	.4930	3.091	575.9
219	168.00	.55500	983.00	.1231	.8200-01	.1622	.9278	.4504-02	.9227-02	.4740	2.977	575.9
219	168.00	.56000	984.00	.1181	.7870-01	.1556	.9278	.4321-02	.8850-02	.4540	2.863	575.9
219	168.00	.56500	985.00	.1131	.7540-01	.1490	.9278	.4138-02	.8474-02	.4350	2.749	575.9
219	168.00	.57000	986.00	.1081	.7210-01	.1425	.9278	.3955-02	.8097-02	.4160	2.635	575.9
219	168.00	.57500	987.00	.1031	.6880-01	.1359	.9278	.3772-02	.7721-02	.3960	2.521	575.9
219	168.00	.58000	988.00	.9810-01	.6550-01	.1293	.9278	.3589-02	.7344-02	.3770	2.407	575.9
219	168.00	.58500	989.00	.9310-01	.6220-01	.1227	.9278	.3406-02	.6968-02	.3580	2.293	575.9
219	168.00	.59000	990.00	.8810-01	.5890-01	.1162	.9278	.3223-02	.6591-02	.3390	2.179	575.9
219	168.00	.59500	991.00	.8310-01	.5560-01	.1096	.9278	.3040-02	.6215-02	.3200	2.065	575.9
219	168.00	.60000	992.00	.7810-01	.5230-01	.1030	.9278	.2857-02	.5838-02	.3000	1.951	575.9
219	168.00	.60500	993.00	.7310-01	.4900-01	.9650-01	.9278	.2674-02	.5462-02	.2810	1.837	575.9
219	168.00	.61000	994.00	.6810-01	.4570-01	.9000-01	.9278	.2491-02	.5085-02	.2620	1.723	575.9
219	168.00	.61500	995.00	.6310-01	.4240-01	.8350-01	.9278	.2308-02	.4709-02	.2420	1.609	575.9
219	168.00	.62000	996.00	.5810-01	.3910-01	.7700-01	.9278	.2125-02	.4332-02	.2230	1.495	575.9
219	168.00	.62500	997.00	.5310-01	.3580-01	.7050-01	.9278	.1942-02	.3956-02	.2040	1.381	575.9
219	168.00	.63000	998.00	.4810-01	.3250-01	.6400-01	.9278	.1759-02	.3579-02	.1850	1.267	575.9
219	168.00	.63500	999.00	.4310-01	.2920-01	.5750-01	.9278	.1576-02	.3203-02	.1650	1.153	575.9
219	168.00	.64000	1000.00	.3810-01	.2590-01	.5100-01	.9278	.1393-02	.2826-02	.1460	1.039	575.9
219	168.00	.64500	1001.00	.3310-01	.2260-01	.4450-01	.9278	.1210-02	.2450-02	.1270	.925	575.9
219	168.00	.65000	1002.00	.2810-01	.1930-01	.3800-01	.9278	.1027-02	.2073-02	.1070	.811	575.9
219	168.00	.65500	1003.00	.2310-01	.1600-01	.3150-01	.9278	.8440-03	.1697-02	.8700	.697	575.9
219	168.00	.66000	1004.00	.1810-01	.1270-01	.2500-01	.9278	.6610-03	.1320-02	.6800	.583	575.9
219	168.00	.66500	1005.00	.1310-01	.9400-02	.1850-01	.9278	.4780-03	.9440-03	.4900	.469	575.9
219	168.00	.67000	1006.00	.8100-02	.6100-02	.1200-01	.9278	.2950-03	.6070-03	.3000	.355	575.9
219	168.00	.67500	1007.00	.3100-02	.2800-02	.5500-02	.9278	.1120-03	.2700-03	.1100	.241	575.9

(RV7F35)

IH41(AEDC V41A-A4A) O T S (CONFIG 4) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
219	180.00	.30000-01	984.00	.6839	.4194	.5769	.9647	.2319-01	.3190-01	2.037	13.68	591.3
220	180.00	.40000-01	600.00	.5543	.3652	.4877	.9632	.2020-01	.2698-01	2.011	12.72	579.9
220	180.00	.50000-01	601.00	.5410	.3568	.4921	.9596	.1974-01	.2722-01	1.969	12.49	579.7
220	180.00	.60000-01	602.00	.4358	.2768	.4065	.9563	.1531-01	.2248-01	1.426	9.313	585.3
220	180.00	.70000-01	603.00	.3808	.2461	.3683	.9531	.1361-01	.2037-01	1.308	8.761	583.4
220	180.00	.80000-01	604.00	.3773	.2435	.3767	.9501	.1347-01	.2084-01	1.290	8.236	583.7
220	180.00	.10000+00	605.00	.2674	.1797	.2818	.9448	.9942-02	.1559-01	1.030	7.287	575.8
220	180.00	.15000	606.00	.1532	.1042	.1791	.9346	.5765-02	.9909-02	.6120	4.393	573.3
220	180.00	.20000	607.00	.9820-01	.7030-01	.1178	.9291	.3890-02	.6513-02	.4650	3.016	559.8
220	180.00	.21000	608.00	.8030-01	.5780-01	.9640-01	.9285	.3200-02	.5332-02	.3890	2.671	558.0
220	180.00	.22000	609.00	.7280-01	.5210-01	.8680-01	.9281	.2882-02	.4801-02	.3520	2.607	557.3
220	180.00	.30000	610.00	.5880-01	.4270-01	.7060-01	.9278	.2350-02	.3904-02	.2930	1.995	555.4
220	180.00	.35000	611.00	.5400-01	.3920-01	.6490-01	.9278	.2167-02	.3592-02	.2680	1.776	555.8
220	180.00	.36000	612.00	.6840-01	.4930-01	.8260-01	.9278	.2728-02	.4571-02	.3320	2.219	557.8
220	180.00	.37500	614.00	.1047	.7410-01	.1283	.9278	.4099-02	.7095-02	.4760	3.139	563.2
220	180.00	.38000	615.00	.1034	.7320-01	.1266	.9278	.4048-02	.7002-02	.4710	3.139	563.5
220	180.00	.39500	616.00	.9450-01	.6660-01	.1158	.9278	.3694-02	.6404-02	.4280	2.854	563.5
220	180.00	.39000	617.00	.9660-01	.6830-01	.1183	.9278	.3777-02	.6545-02	.4380	2.911	563.5
220	180.00	.39500	618.00	.9800-01	.6890-01	.1206	.9278	.3812-02	.6668-02	.4370	2.916	565.0
220	180.00	.40000	619.00	.1086	.7640-01	.1358	.9278	.4224-02	.7514-02	.4730	3.139	567.4
220	180.00	.40500	620.00	.1130	.8140-01	.1474	.9278	.4500-02	.8155-02	.4930	3.273	570.0
220	180.00	.41000	621.00	.1437	.9760-01	.1820	.9278	.5394-02	.1007-01	.5700	3.779	573.8
220	180.00	.41500	622.00	.1690	.1209	.2106	.9278	.6134-02	.1165-01	.6350	4.196	575.9
220	180.00	.42500	624.00	.2133	.1381	.2813	.9278	.7640-02	.1556-01	.7360	4.846	583.1
220	180.00	.43000	625.00	.2568	.1630	.3450	.9278	.9013-02	.1908-01	.8380	5.521	586.5
220	180.00	.44000	626.00	.3645	.1952	.4597	.9278	.1080-01	.2543-01	.9210	6.045	594.2
220	180.00	.44500	627.00	.3560	.2002	.4869	.9278	.1107-01	.2693-01	.9230	6.106	596.2
220	180.00	.45000	628.00	.2820	.1816	.4022	.9278	.1004-01	.2225-01	.8980	5.963	590.9
220	180.00	.45500	629.00	.2454	.1476	.2911	.9278	.8162-02	.1610-01	.8120	5.500	580.0
220	180.00	.46000	630.00	.1886	.1206	.2230	.9278	.6670-02	.1234-01	.7120	4.726	578.7
220	180.00	.47000	631.00	.1276	.7540-01	.1327	.9278	.4169-02	.7342-02	.4730	3.151	565.9
220	180.00	.48000	632.00	.9780-01	.6830-01	.1212	.9278	.3777-02	.6702-02	.4250	2.843	567.0
220	180.00	.49000	633.00	.1739	.1155	.2243	.9278	.6388-02	.1241-01	.6460	4.339	578.4
220	180.00	.50000	634.00	.1852	.1251	.2355	.9278	.6917-02	.1303-01	.7240	4.992	574.9
220	180.00	.55000	635.00	.8110-01	.5800-01	.9860-01	.9278	.3207-02	.5451-02	.3820	2.521	560.3
220	180.00	.60000	636.00	.1557	.1080	.1938	.9278	.5973-02	.1072-01	.6620	4.221	568.7
220	180.00	.65000	637.00	.1676	.1165	.2081	.9278	.6446-02	.1151-01	.7190	4.598	568.0
220	180.00	.70000	638.00	.1133	.7890-01	.1404	.9278	.4365-02	.7764-02	.4890	3.314	567.4
220	180.00	.75000	639.00	.5200-01	.3700-01	.6340-01	.9278	.2047-02	.3506-02	.2410	1.544	561.6
220	180.00	.80000	640.00	.6390-01	.4520-01	.7840-01	.9278	.2498-02	.4338-02	.2890	1.794	563.9
220	180.00	.85000	641.00	.1232	.8440-01	.1549	.9278	.4666-02	.8566-02	.5030	3.138	571.7
220	180.00	.86000	642.00	.1198	.8120-01	.1518	.9278	.4493-02	.8394-02	.4740	3.000	573.9
220	180.00	.87000	643.00	.9750-01	.6590-01	.1237	.9278	.3647-02	.6843-02	.3830	2.436	574.4

IH41(AEDC V41A-A4A) O T S (CONFIG 4) TANK DATA (RV7F35)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
220	180.00	.88000	644.00	.1268	.8450-01	.1631	.9278	.4672-02	.9019-02	.4760	3.046	577.7
220	180.00	.89000	645.00	.1400	.9180-01	.1827	.9278	.5078-02	.1010-01	.5010	3.241	580.8
220	180.00	.90000	646.00	.1047	.6930-01	.1356	.9278	.3831-02	.7498-02	.3840	2.542	579.1
220	180.00	.95000	649.00	.3690-01	.2640-01	.4490-01	.9278	.1459-02	.2481-02	.1740	1.246	560.4
220	191.25	.35000	650.00	.5790-01	.4180-01	.6970-01	.9278	.2314-02	.3855-02	.2840	1.899	556.8
220	191.25	.36000	651.00	.7080-01	.5100-01	.8560-01	.9278	.2818-02	.4737-02	.3410	2.278	558.4
220	191.25	.37000	652.00	.1042	.7410-01	.1271	.9278	.4100-02	.7029-02	.4830	3.226	561.7
220	191.25	.37500	653.00	.1058	.7500-01	.1295	.9278	.4146-02	.7160-02	.4830	3.231	562.9
220	191.25	.38000	654.00	.9570-01	.6800-01	.1168	.9278	.3760-02	.6463-02	.4410	2.950	562.2
220	191.25	.38500	655.00	.1036	.7370-01	.1268	.9278	.4054-02	.7013-02	.4710	3.152	563.2
220	191.25	.39000	656.00	.1035	.7300-01	.1272	.9278	.4035-02	.7036-02	.4640	3.102	564.4
220	191.25	.39500	657.00	.1159	.8110-01	.1432	.9278	.4487-02	.7920-02	.5080	3.390	566.3
220	191.25	.40000	658.00	.1379	.9600-01	.1710	.9278	.5310-02	.9459-02	.5940	3.975	567.6
220	191.25	.40500	659.00	.1406	.9710-01	.1755	.9278	.5371-02	.9707-02	.5900	3.944	569.6
220	191.25	.41000	660.00	.1597	.1098	.2000	.9278	.6072-02	.1106-01	.6600	4.398	570.7
220	191.25	.41500	661.00	.1584	.1094	.1977	.9278	.6051-02	.1094-01	.6650	4.416	569.6
220	191.25	.42000	662.00	.1753	.1179	.2235	.9278	.6523-02	.1236-01	.6780	4.502	575.6
220	191.25	.42500	663.00	.1901	.1259	.2457	.9278	.6964-02	.1359-01	.7010	4.663	578.8
220	191.25	.43000	664.00	.2391	.1521	.3205	.9278	.8411-02	.1733-01	.7850	5.253	586.1
220	191.25	.44000	665.00	.2502	.1647	.3503	.9278	.9110-02	.1938-01	.8440	5.608	586.9
220	191.25	.45000	666.00	.2297	.1516	.2978	.9278	.8383-02	.1647-01	.8370	5.587	579.6
220	191.25	.45500	667.00	.1985	.1313	.2569	.9278	.7260-02	.1421-01	.7280	4.859	579.2
220	191.25	.46000	668.00	.1838	.1221	.2369	.9278	.6754-02	.1310-01	.6840	4.580	578.2
220	191.25	.47000	669.00	.1687	.1129	.2161	.9278	.6243-02	.1196-01	.6410	4.309	576.8
220	191.25	.48000	670.00	.1756	.1187	.2231	.9278	.6566-02	.1234-01	.6880	4.633	574.6
220	191.25	.49000	671.00	.1778	.1197	.2266	.9278	.6624-02	.1253-01	.6890	4.621	575.4
220	191.25	.50000	672.00	.1949	.1295	.2513	.9278	.7164-02	.1390-01	.7250	4.969	578.2
220	191.25	.60000	673.00	.1233	.8680-01	.1516	.9278	.4801-02	.8384-02	.5510	3.502	564.7
220	191.25	.70000	674.00	.1564	.1065	.1975	.9278	.5892-02	.1093-01	.6270	4.213	573.0
220	191.25	.85000	676.00	.5010-01	.3470-01	.6240-01	.9278	.1921-02	.3453-02	.2120	1.327	568.9
220	191.25	.86000	677.00	.5720-01	.3920-01	.7190-01	.9278	.2169-02	.3978-02	.2340	1.478	571.6
220	191.25	.87000	678.00	.6590-01	.4460-01	.8360-01	.9278	.2469-02	.4626-02	.2600	1.652	574.3
220	191.25	.88000	679.00	.7740-01	.5170-01	.9930-01	.9278	.2859-02	.5492-02	.2930	1.880	577.1
220	191.25	.89000	680.00	.1118	.7370-01	.1452	.9278	.4077-02	.8031-02	.4060	2.646	579.8
220	191.25	.90000	681.00	.1098	.7200-01	.1432	.9278	.3984-02	.7922-02	.3930	2.606	580.8
220	191.25	.91000	682.00	.8590-01	.5360-01	.8530-01	.9278	.2414-02	.4718-02	.2430	1.741	579.0
220	191.25	.92000	683.00	.1028	.6800-01	.1367	.9278	.3652-02	.7561-02	.3470	2.489	584.6
220	191.25	.93000	684.00	.8190-01	.5290-01	.1060-01	.9278	.2964-02	.5846-02	.3010	2.162	582.1
220	191.25	.94000	685.00	.6370-01	.3990-01	.6400-01	.9278	.2151-02	.3533-02	.2690	1.801	554.4
220	191.25	.94500	686.00	.6190-01	.3740-01	.6190-01	.9278	.2070-02	.3421-02	.2570	1.721	555.2
220	191.25	.95000	687.00	.5910-01	.3540-01	.5700-01	.9278	.2400-02	.3991-02	.2960	1.993	558.0
220	191.25	.95500	688.00	.5710-01	.3610-01	.5810-01	.9278	.2429-02	.4129-02	.3010	2.035	560.2
220	191.25	.96000	689.00	.5810-01	.3670-01	.5912-01	.9278	.2512-02	.4204-02	.3010	2.075	559.7

DATE 03 JUN 76

AEDC VKIA-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F35)

IHNI(AEDC VKIA-A4A) O T S (CONFIG 4) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
220	197.00	.37500	690.00	.1069	.7530-01	.1314	.9278	.4167-02	.7267-02	.4790	3.202	564.5
220	197.00	.50000	691.00	.2293	.1434	.3123	.9278	.7934-02	.1728-01	.7200	4.738	588.7
220	197.00	.60000	692.00	.1079	.7620-01	.1324	.9278	.4213-02	.7324-02	.4860	3.110	564.0
220	197.00	.70000	693.00	.2063	.1347	.2700	.9278	.7452-02	.1493-01	.7300	4.864	581.6
220	197.00	.80000	694.00	.7330-01	.5190-01	.8960-01	.9278	.2872-02	.4957-02	.3350	2.088	562.9
220	197.00	.87000	695.00	.5960-01	.4030-01	.7560-01	.9278	.2228-02	.4182-02	.2340	1.471	574.5
220	197.00	.92600	696.00	.1399	.8920-01	.1871	.9278	.4935-02	.1035-01	.4630	3.322	585.7
222	209.80	.15000-01	697.00	.1668	.1197	.2021	.9278	.6619-02	.1118-01	.0000	0000	538.2
221	209.80	.30000-01	698.00	.6901	.4509	.5970	.9647	.2494-01	.3302-01	2.448	16.36	582.1
221	209.80	.50000-01	699.00	.5332	.3626	.4889	.9596	.2005-01	.2704-01	2.132	13.37	574.0
221	209.80	.70000-01	700.00	.4646	.2975	.4490	.9531	.1645-01	.2483-01	1.555	10.32	585.7
221	209.80	.10000+00	701.00	.2997	.2051	.3150	.9447	.1134-01	.1742-01	1.222	7.693	576.5
221	209.80	.15000	702.00	.1370	.9620-01	.1577	.9346	.5319-02	.8721-02	.6060	4.296	566.3
221	209.80	.20000	703.00	.8000-01	.5920-01	.9370-01	.9291	.3275-02	.5182-02	.4290	2.856	549.2
221	209.80	.30000	704.00	.6650-01	.4900-01	.7910-01	.9278	.2707-02	.4375-02	.3490	2.466	551.4
221	209.80	.37500	706.00	.1115	.8010-01	.1349	.9278	.4431-02	.7462-02	.5360	3.657	559.3
221	209.80	.50000	707.00	.1888	.1298	.2365	.9278	.7179-02	.1308-01	.7820	5.284	571.4
221	209.80	.60000	708.00	.9680-01	.7170-01	.1188	.9278	.3966-02	.6571-02	.4910	3.115	556.4
221	209.80	.80000	710.00	.5600-01	.4050-01	.6740-01	.9278	.2241-02	.3728-02	.2760	1.710	557.2
221	209.80	.87000	711.00	.7550-01	.5290-01	.9300-01	.9278	.2928-02	.5145-02	.3340	2.089	566.3
221	209.80	.92600	712.00	.8840-01	.5900-01	.1136	.9278	.3264-02	.6282-02	.3340	2.388	578.1
221	217.70	.15000-01	713.00	.1861	.1356	.2230	.9278	.7499-02	.1233-01	.9400	6.446	555.0
221	217.70	.30000-01	714.00	.6512	.4269	.5640	.9647	.2361-01	.3119-01	2.331	15.59	581.5
221	217.70	.50000-01	715.00	.5219	.3585	.4798	.9596	.1983-01	.2654-01	2.154	13.68	571.7
221	217.70	.70000-01	716.00	.4565	.2930	.4413	.9531	.1620-01	.2440-01	1.539	10.30	585.3
221	217.70	.10000+00	717.00	.2920	.1697	.2534	.9447	.9384-02	.1401-01	1.068	6.860	566.5
221	217.70	.15000	718.00	.1356	.9550-01	.1557	.9346	.5282-02	.8613-02	.6070	4.405	565.3
221	217.70	.20000	719.00	.8180-01	.6070-01	.9570-01	.9291	.3357-02	.5293-02	.4430	2.984	548.3
221	217.70	.30000	720.00	.7130-01	.5230-01	.8500-01	.9278	.2891-02	.4702-02	.3690	2.630	552.7
221	217.70	.35000	721.00	.8410-01	.6210-01	.9970-01	.9278	.3435-02	.5514-02	.4470	3.095	550.0
221	217.70	.37500	722.00	.8650-01	.6350-01	.1031	.9278	.3511-02	.5703-02	.4490	3.099	552.5
221	217.70	.50000	723.00	.1867	.1300	.2316	.9278	.7190-02	.1281-01	.8050	5.502	568.3
221	217.70	.70000	725.00	.6840-01	.4960-01	.8230-01	.9278	.2744-02	.4550-02	.3400	2.148	556.5
221	217.70	.80000	726.00	.5090-01	.3680-01	.6120-01	.9278	.2038-02	.3387-02	.2510	1.571	557.0
221	217.70	.87000	727.00	.8940-01	.6250-01	.1105	.9278	.3455-02	.6114-02	.3900	2.468	567.3
221	217.70	.92600	728.00	.8660-01	.5840-01	.1102	.9278	.3232-02	.6092-02	.3380	2.422	575.7

ORIGINAL PAGE IS
OF POOR QUALITY

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = .0000 BETA = .0000 GRIT = .0000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
214	4.520	5.000	-.2000-01	.0000	.0000	95.10	.3200	660.0	129.8	4.583	2524.	.2071-03
215	4.520	4.959	-.2000-01	.0000	.0000	95.00	.3200	664.0	130.5	4.581	2530.	.2059-03
216	4.520	4.940	-.2000-01	.0000	.0000	95.20	.3210	666.0	130.9	4.586	2534.	.2055-03
217	4.520	4.944	-.2000-01	.0000	.0000	95.20	.3210	666.0	130.9	4.588	2534.	.2056-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
214	.1045-06	.4684-01	.1147-01
215	.1051-06	.4687-01	.1151-01
216	.1054-06	.4692-01	.1153-01
217	.1054-06	.4693-01	.1153-01

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF P=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
215	.00000	.30000-02	730.00	.3958	.2621	.3398	.9661	.1228-01	.1593-01	1.206	8.207	565.5
215	.00000	.10300-01	731.00	.1259	.9030-01	.1680	.9183	.4231-02	.7872-02	.4960	3.417	546.5
215	.00000	.15000-01	732.00	.8970-01	.6500-01	.1182	.9183	.3045-02	.5542-02	.3660	2.498	543.4
215	.00000	.20000-01	733.00	.9040-01	.6460-01	.8210-01	.9625	.3027-02	.3849-02	.3520	2.417	547.4
215	.00000	.25000-01	734.00	.2185	.1493	.1992	.9605	.5997-02	.9334-02	.7330	4.956	559.0
215	.00000	.30000-01	735.00	.4863	.3047	.4402	.9598	.1408-01	.2063-01	1.269	8.567	574.9
215	.00000	.40000-01	737.00	.4532	.2957	.4207	.9573	.1386-01	.1972-01	1.323	8.542	568.3
215	.00000	.45000-01	738.00	.5254	.3367	.4951	.9555	.1578-01	.2320-01	1.458	9.534	571.4
215	.00000	.60000-01	739.00	.3314	.2125	.3302	.9503	.9960-02	.1548-01	.9210	6.118	571.2
215	.00000	.70000-01	740.00	.3056	.2001	.3154	.9470	.9377-02	.1478-01	.9010	6.030	567.7
215	.00000	.80000-01	741.00	.2569	.1704	.2736	.9440	.7987-02	.1202-01	.7880	5.673	565.2
215	.00000	.10000+00	742.00	.2199	.1514	.2460	.9383	.7094-02	.1053-01	.7550	5.021	557.3
215	.00000	.12500	743.00	.1663	.1071	.1872	.9331	.5019-02	.8454-02	.5290	3.895	558.3
215	.00000	.15000	744.00	.1242	.9740-01	.1540	.9270	.4094-02	.7218-02	.4580	3.177	551.9
215	.00000	.17500	745.00	.1019	.8340-01	.1082	.9231	.2786-02	.4979-02	.3230	2.427	547.5
215	.00000	.20000	746.00	.0940	.7030-01	.7120-01	.9202	.1855-02	.3336-02	.2210	1.694	544.5

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F35)

(IH41)(AEDC V41A-A4A) O T S (CONFIG 4) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
215	.00000	.21500	747.00	.4450-01	.3220-01	.5820-01	.9191	.1507-02	.2730-02	.1810	1.254	543.9
215	.00000	.23000	748.00	.3110-01	.2240-01	.4130-01	.9184	.1051-02	.1934-02	.1250	.9230	545.1
215	.00000	.24000	749.00	.2590-01	.1880-01	.3420-01	.9183	.8797-03	.1601-02	.1060	.8000	543.4
215	.00000	.25000	750.00	.1370-01	.9900-02	.1810-01	.9183	.4659-03	.8485-03	.5600-01	.4540	543.5
215	.00000	.30000	751.00	.3920-01	.2830-01	.5190-01	.9183	.1328-02	.2433-02	.1590	1.042	544.4
215	.00000	.40000	753.00	.4540-01	.3290-01	.5970-01	.9183	.1544-02	.2800-02	.1870	1.202	542.9
215	.00000	.50000	754.00	.4400-01	.3150-01	.5900-01	.9183	.1474-02	.2766-02	.1710	1.119	547.7
215	.00000	.60000	755.00	.3370-01	.2410-01	.4500-01	.9183	.1130-02	.2108-02	.1320	8460	546.9
215	.00000	.70000	756.00	.4360-01	.3050-01	.5970-01	.9183	.1432-02	.2799-02	.1590	1.046	552.8
215	.00000	.80000	757.00	.3830-01	.2700-01	.5220-01	.9183	.1263-02	.2449-02	.1420	.8850	551.7
215	.00000	.90000	758.00	.2210-01	.1560-01	.3020-01	.9183	.7308-03	.1413-02	.8200-01	.5300	551.5
215	55.000	.22000	759.00	.3680-01	.2670-01	.4820-01	.9188	.1249-02	.2259-02	.1510	1.122	543.2
215	55.000	.25000	760.00	.1480-01	.1070-01	.1940-01	.9183	.5037-03	.9114-03	.6100-01	.4790	542.5
215	55.000	.27000	761.00	.1900-01	.1370-01	.2510-01	.9183	.6420-03	.1178-02	.7700-01	.5700	544.6
215	55.000	.30000	762.00	.4270-01	.309[illegible]-01	.5600-01	.9183	.1449-02	.2634-02	.1750	1.052	543.2
215	55.000	.32000	763.00	.5400-01	.3900-01	.7120-01	.9183	.1830-02	.3336-02	.2200	1.303	543.6
215	55.000	.34000	764.00	.4690-01	.3390-01	.6210-01	.9183	.1588-02	.2908-02	.1900	1.127	544.3
215	55.000	.36000	765.00	.5220-01	.3760-01	.6910-01	.9183	.1763-02	.3239-02	.2100	1.262	544.8
215	55.000	.38000	766.00	.6770-01	.4840-01	.9060-01	.9183	.2267-02	.4248-02	.2640	1.602	547.5
215	55.000	.40000	767.00	.8630-01	.6120-01	.1165	.9183	.2870-02	.5458-02	.3280	2.048	549.4
215	67.500	.23000	768.00	.3310-01	.2390-01	.4380-01	.9184	.1118-02	.2054-02	.1330	.9900	544.9
215	67.500	.25000	769.00	.1500-01	.1090-01	.1980-01	.9183	.5088-03	.9263-03	.6100-01	.4770	543.4
215	67.500	.27000	770.00	.2270-01	.1640-01	.3000-01	.9183	.7673-03	.1406-02	.9200-01	.6690	544.4
215	67.500	.29000	771.00	.3110-01	.2240-01	.4130-01	.9183	.1049-02	.1936-02	.1240	.7700	545.4
215	67.500	.30000	772.00	.6010-01	.4300-01	.8030-01	.9183	.2016-02	.3766-02	.2350	1.438	547.0
215	67.500	.31000	773.00	.6270-01	.4490-01	.8380-01	.9183	.2104-02	.3926-02	.2460	1.490	546.9
215	67.500	.32000	774.00	.6370-01	.4560-01	.8500-01	.9183	.2138-02	.3982-02	.2500	1.505	546.7
215	67.500	.32500	775.00	.6810-01	.4870-01	.9110-01	.9183	.2282-02	.4268-02	.2660	1.603	547.2
215	67.500	.33000	776.00	.7950-01	.5640-01	.1073	.9183	.2646-02	.5027-02	.3030	1.829	549.3
215	67.500	.33500	777.00	.9530-01	.6780-01	.1303	.9183	.3176-02	.6108-02	.3590	2.164	550.8
215	67.500	.34000	778.00	.9670-01	.6800-01	.1321	.9183	.3185-02	.6193-02	.3560	2.144	552.1
215	67.500	.34500	779.00	.1107	.7700-01	.1531	.9183	.3611-02	.7175-02	.3940	2.380	554.6
215	67.500	.35000	780.00	.1136	.7880-01	.1576	.9183	.3694-02	.7388-02	.4010	2.425	555.3
215	67.500	.36000	782.00	.1234	.8540-01	.1718	.9183	.4002-02	.8053-02	.4310	2.617	556.0
215	67.500	.36500	783.00	.1237	.8630-01	.1705	.9183	.4044-02	.7993-02	.4440	2.688	554.0
215	67.500	.37000	784.00	.1081	.7590-01	.1478	.9183	.3558-02	.6928-02	.3970	2.417	552.3
215	67.500	.37500	785.00	.1047	.7360-01	.1430	.9183	.3450-02	.6703-02	.3860	2.370	552.0
215	67.500	.38000	786.00	.1004	.7070-01	.1367	.9183	.3314-02	.6409-02	.3720	2.295	551.5
215	67.500	.39000	787.00	.7940-01	.5620-01	.1076	.9183	.2632-02	.5043-02	.2990	1.847	550.3
215	67.500	.40000	788.00	.7280-01	.5200-01	.9770-01	.9183	.2435-02	.4580-02	.2820	1.761	548.0
215	67.500	.50000	789.00	.2980-01	.2120-01	.4010-01	.9183	.9935-03	.1878-02	.1140	.7320	548.7
215	67.500	.60000	790.00	.3010-01	.2150-01	.4040-01	.9183	.1006-02	.1893-02	.1160	.7630	548.1
215	67.500	.70000	791.00	.3730-01	.2590-01	.5160-01	.9183	.1215-02	.2417-02	.1320	.9320	554.7

(RV7F35)

(IH41(AEDC V41A-A4A) O T S (CONFIG 4) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	CDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
215	67.500	.80000	792.00	.2350-01	.1640-01	.3220-01	.9183	.7687-03	.1511-02	.8500-01	.5310	553.4
215	67.500	.90000	793.00	.4970-01	.3370-01	.7100-01	.9183	.1581-02	.3328-02	.1630	1.047	560.4
215	78.000	.27000	794.00	.2180-01	.1570-01	.2890-01	.9183	.7378-03	.1355-02	.8800-01	.6270	544.7
215	78.000	.29000	795.00	.5840-01	.4170-01	.7830-01	.9183	.1935-02	.3668-02	.0000	.0000	187.9
216	78.000	.30000	796.00	.1012	.7200-01	.1362	.9183	.3378-02	.6398-02	.3300	2.360	550.5
216	78.000	.31000	797.00	.1150	.8010-01	.1589	.9183	.3756-02	.7455-02	.4120	2.485	556.3
216	78.000	.32000	798.00	.1423	.9720-01	.2018	.9183	.4559-02	.9470-02	.4780	2.863	561.0
216	78.000	.32500	799.00	.1559	.1060	.2223	.9183	.4974-02	.1043-01	.5170	3.103	562.0
216	78.000	.33000	800.00	.1713	.1152	.2477	.9183	.5404-02	.1162-01	.5500	3.294	564.3
216	78.000	.33500	801.00	.1855	.1246	.2704	.9183	.5844-02	.1269-01	.5900	3.532	565.1
216	78.000	.34000	802.00	.1998	.1280	.2769	.9183	.6004-02	.1299-01	.6070	3.639	564.8
216	78.000	.34500	803.00	.1968	.1324	.2843	.9183	.6213-02	.1334-01	.6330	3.802	564.1
216	78.000	.35000	804.00	.1821	.1248	.2569	.9183	.5855-02	.1205-01	.6200	3.731	560.2
216	78.000	.35500	805.00	.1842	.1272	.2572	.9183	.5969-02	.1207-01	.6430	3.873	558.3
216	78.000	.36000	806.00	.1687	.1167	.2353	.9183	.5474-02	.1104-01	.5910	3.570	558.1
216	78.000	.35500	807.00	.1417	.9880-01	.1956	.9183	.4633-02	.9179-02	.5090	3.088	556.1
216	78.000	.37000	808.00	.1157	.8150-01	.1578	.9183	.3822-02	.7403-02	.4300	2.619	553.5
216	78.000	.37500	809.00	.9450-01	.6690-01	.1280	.9183	.3140-02	.6007-02	.3580	2.182	552.0
216	78.000	.38000	810.00	.7600-01	.5560-01	.1049	.9183	.2608-02	.4990-02	.3020	1.853	550.2
216	78.000	.38500	811.00	.6340-01	.4310-01	.8100-01	.9183	.2024-02	.3800-02	.2360	1.451	548.5
216	78.000	.39000	812.00	.2488	.1600	.3722	.9183	.7508-02	.1746-01	.7170	4.364	570.5
217	90.000	.40000-01	985.00	.4946	.3327	.4618	.9573	.1561-01	.2167-01	1.598	10.24	564.2
217	90.000	.50000-01	986.00	.4931	.3330	.4759	.9637	.1563-01	.2273-01	1.602	10.28	563.3
217	90.000	.60000-01	987.00	.3533	.2322	.3521	.9503	.1090-01	.1652-01	1.098	6.886	568.7
217	90.000	.80000-01	989.00	.2898	.1945	.3066	.9440	.9129-02	.1439-01	.9310	6.541	563.5
217	90.000	.10000	991.00	.1631	.8390-01	.1497	.9271	.3939-02	.7024-02	.4360	3.185	565.3
217	90.000	.24000	814.00	.2680-01	.1900-01	.3450-01	.9183	.8838-03	.1621-02	.1070	.6590	564.3
217	90.000	.22000	816.00	.2130-01	.1530-01	.2980-01	.9183	.7451-03	.1350-02	.9000-01	.6540	564.6
217	90.000	.24000	818.00	.1001	.7610-01	.1505	.9183	.3571-02	.7051-02	.4660	2.431	566.9
217	90.000	.26000	820.00	.1135	.8308	.3073	.9183	.6833-02	.1193-01	.6870	3.609	571.1
217	90.000	.28000	819.00	.2262	.1478	.3406	.9183	.6976-02	.1298-01	.6870	3.985	570.8
217	90.000	.29000	817.00	.1368	.1582	.3527	.9183	.7434-02	.1685-01	.7330	4.284	567.3
217	90.000	.29500	815.00	.2530	.1655	.3758	.9183	.7765-02	.1768-01	.7670	4.491	568.2
217	90.000	.29750	813.00	.2603	.1704	.3985	.9183	.7807-02	.1870-01	.7600	4.541	570.9
217	90.000	.30000	812.00	.2331	.1461	.4612	.9183	.9152-02	.2154-01	.8830	5.338	577.2
217	90.000	.30250	811.00	.2749	.1727	.5401	.9183	.1031-01	.2687-01	.9460	5.878	574.2
217	90.000	.30500	810.00	.2847	.1792	.5602	.9183	.1169-01	.3905-01	.9800	5.935	568.9
217	90.000	.30750	809.00	.2774	.1728	.5398	.9183	.9185-02	.2787-01	.7440	4.432	567.8
217	90.000	.31000	808.00	.2621	.1631	.5104	.9183	.6354-02	.1558-01	.6730	4.006	567.8
217	90.000	.31250	807.00	.2471	.1538	.4814	.9183	.4914-02	.8816-02	.5980	3.560	567.8
217	90.000	.31500	806.00	.2316	.1441	.4510	.9183	.3778-02	.7240-02	.5050	3.007	567.8
217	90.000	.31750	805.00	.2163	.1346	.4213	.9183	.2883-02	.4439-02	.4300	2.561	567.8
217	90.000	.32000	804.00	.2010	.1251	.3916	.9183	.1595-02	.2965-02	.4200	2.501	567.8

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F35)

IH41(AEDC V41A-A4A) O T S (CONFIG 4) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
216	90.000	.40000	834.00	.5400-01	.3890-01	.7180-01	.9183	.1823-02	.3367-02	.2160	1.337	547.3
216	90.000	.50000	835.00	.2150-01	.1540-01	.2880-01	.9183	.7222-03	.1350-02	.8400-01	.5330	549.0
216	90.000	.60000	836.00	.4350-01	.3090-01	.5850-01	.9183	.1451-02	.2745-02	.1680	1.114	550.5
216	90.000	.70000	837.00	.4810-01	.3370-01	.6590-01	.9183	.1583-02	.3092-02	.1770	1.238	554.5
216	90.000	.80000	838.00	.5000-01	.3500-01	.6880-01	.9183	.1641-02	.3226-02	.1820	1.124	555.2
216	90.000	.90000	839.00	.1137	.7650-01	.1644	.9183	.3589-02	.7712-02	.3650	2.315	564.2
216	112.50	.23000	840.00	.3270-01	.2370-01	.4300-01	.9184	.1112-02	.2017-02	.1350	1.085	545.0
216	112.50	.25000	841.00	.1600-01	.1160-01	.2090-01	.9183	.5440-03	.9825-03	.6600-01	5150	544.1
216	112.50	.30000	843.00	.6820-01	.4880-01	.9110-01	.9183	.2230-02	.4274-02	.2680	1.595	548 8
216	112.50	.33000	844.00	.1067	.7560-01	.1445	.9184	.3545-02	.6781-02	.4040	2.431	551.9
216	112.50	.35000	845.00	.1609	.1110	.2251	.9183	.5206-02	.1056-01	.5590	3.403	558.7
216	112.50	.37000	846.00	.1356	.9500-01	.1859	.9183	.4459-02	.8721-02	.4970	3.048	554.6
216	112.50	.40000	847.00	.5040-01	.3640-01	.6660-01	.9183	.1709-02	.3123-02	.2050	1.260	545.8
216	112.50	.45000	848.00	.3600-01	.2600-01	.4760-01	.9183	.1221-02	.2235-02	.1470	.9210	546.0
216	112.50	.5[illegible]000	849.00	.3320-01	.2370-01	.4450-01	.9183	.1114-02	.2088-02	.1300	.8340	549.3
216	112.50	.5[illegible]00	850.00	.1640-01	.1180-01	.2190-01	.9183	.5520-03	.1026-02	.6500-01	.4340	548.1
216	112.50	.60000	851.00	.2930-01	.2100-01	.3910-01	.9183	.9835-03	.1837-02	.1150	.7710	548.8
216	112.50	.65000	852.00	.5340-01	.3780-01	.7230-01	.9183	.1772-02	.3393-02	.2020	1.369	552.1
216	112.50	.70000	853.00	.6780-01	.4740-01	.9360-01	.9183	.2224-02	.4392-02	.2450	1.712	555.8
216	112.50	.75000	854.00	.4190-01	.2940-01	.5740-01	.9183	.1378-02	.2693-02	.1540	.9900	554.5
216	112.50	.80000	855.00	.5510-01	.4080-01	.7940-01	.9183	.1916-02	.3725-02	.2150	1.391	553.9
216	112.50	.90000	856.00	.8130-01	.5510-01	.1165	.9183	.2586-02	.5464-02	.2670	1.719	562.7
216	112.50	.84000	857.00	.7390-01	.5130-01	.1025	.9183	.2409-02	.4808-02	.2630	1.615	556.9
216	125.40	.84000	858.00	.7270-01	.5060-01	.1007	.9183	.2372-02	.4724-02	.2590	1.603	556.7
216	125.40	.86000	859.00	.5960-01	.4140-01	.8150-01	.9183	.1943-02	.3821-02	.2150	1.341	555.3
216	125.40	.88000	860.00	.5560-01	.3920-01	.7740-01	.9183	.1841-02	.3632-02	.2030	1.271	555.7
216	125.40	.91000	861.00	.6850-01	.4740-01	.9530-01	.9183	.2224-02	.4471-02	.2410	1.555	557.7
216	125.40	.94000	862.00	.8530-01	.5850-01	.1202	.9183	.2746-02	.5639-02	.2910	1.829	559.9
216	125.40	.97000	863.00	.8160-01	.5670-01	.1183	.9183	.2660-02	.5549-02	.2780	1.754	561.5
216	125.40	.99000	864.00	.1101	.8040-01	.1715	.9183	.3772-02	.8047-02	.3860	2.725	563.5
216	125.40	.99600	865.00	.2048	.1331	.3110	.9183	.6246-02	.1459-01	.5940	4.255	570.8
216	129.30	.84000	866.00	.5630-01	.3950-01	.7700-01	.9183	.1853-02	.3612-02	.2070	1.297	554.2
216	129.30	.86000	867.00	.5580-01	.3950-01	.7670-01	.9183	.1854-02	.3601-02	.2080	1.294	553.8
216	129.30	.88000	868.00	.6800-01	.4720-01	.8010-01	.9183	.1931-02	.3756-02	.2160	1.345	554.0
216	129.30	.92000	869.00	.6850-01	.4760-01	.9510-01	.9183	.2233-02	.4463-02	.2430	1.515	557.1
216	135.00	.40000-01	870.00	.4965	.3318	.4628	.9573	.1557-01	.2172-01	1.562	9.951	565.6
216	135.00	.50000-01	871.00	.4823	.3251	.4654	.9538	.1525-01	.2183-01	1.558	9.874	563.8
216	135.00	.60000-01	872.00	.3453	.2206	.3450	.9504	.1063-01	.1619-01	1.024	6.724	569.6
216	135.00	.70000-01	873.00	.3019	.1993	.3112	.9471	.9352-02	.1460-01	.9170	6.170	568.0
216	135.00	.10000+00	875.00	.2237	.1548	.2496	.9383	.7264-02	.1171-01	.7860	5.129	557.8
216	135.00	.15000	876.00	.1242	.8680-01	.1549	.9271	.4071-02	.7269-02	.4490	3.27[illegible]	555.6
216	135.00	.20000	877.00	.6230-01	.4480-01	.8120-01	.9202	.2102-02	.3811-02	.2490	1.678	547.5
216	135.00	.35000	878.00	.5180-01	.3740-01	.6860-01	.9183	.1753-02	.3218-02	.2100	1.303	548.4

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F35)

(IH41(AEDC V41A-A4A) O T S (CONFIG 4) (ANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
216	135.00	.40000	879.00	.5510-01	.3960-01	.7340-01	.9183	.1858-02	.3443-02	.2200	1.391	547.8
216	135.00	.50000	880.00	.5680-01	.4040-01	.7640-01	.9183	.1897-02	.3586-02	.2190	1.501	550.5
216	135.00	.55000	881.00	.6530-01	.4580-01	.8940-01	.9183	.2149-02	.4194-02	.2400	1.591	554.4
216	135.00	.60000	882.00	.6200-01	.4370-01	.8450-01	.9183	.2050-02	.3963-02	.2310	1.548	553.2
216	135.00	.65000	883.00	.6700-01	.4730-01	.9110-01	.9183	.2220-02	.4272-02	.2510	1.711	552.7
216	135.00	.70000	884.00	.5280-01	.3710-01	.7200-01	.9183	.1743-02	.3380-02	.1960	1.387	553.6
216	135.00	.75000	885.00	.5570-01	.3900-01	.7660-01	.9183	.1829-02	.3595-02	.2020	1.427	555.2
216	135.00	.80000	886.00	.5390-01	.3780-01	.9460-01	.9130	.2078-02	.4234-02	.2080	1.470	244.7
216	135.00	.85000	887.00	.5130-01	.3600-01	.1177	.9183	.2688-02	.6318-02	.2670	1.885	508.5
216	135.00	.90000	888.00	.5040-01	.3540-01	.1057	.9183	.2448-02	.6036-02	.2540	1.795	551.4
216	135.00	.95000	889.00	.5210-01	.3660-01	.1118	.9183	.2588-02	.5541-02	.2630	1.858	550.5
216	135.00	1.00000	890.00	.5210-01	.3660-01	.1118	.9183	.2588-02	.5887-02	.2630	1.858	550.5
216	135.00	1.05000	891.00	.5210-01	.3660-01	.1118	.9183	.2588-02	.5471-02	.2630	1.858	550.5
216	135.00	1.10000	892.00	.5210-01	.3660-01	.1118	.9183	.2588-02	.5657-02	.2630	1.858	550.5
216	135.00	1.15000	893.00	.5210-01	.3660-01	.1118	.9183	.2588-02	.5657-02	.2630	1.858	550.5
216	135.00	1.20000	894.00	.5210-01	.3660-01	.1118	.9183	.2588-02	.5657-02	.2630	1.858	550.5
216	135.00	1.25000	895.00	.5210-01	.3660-01	.1118	.9183	.2588-02	.5657-02	.2630	1.858	550.5
216	135.00	1.30000	896.00	.5210-01	.3660-01	.1118	.9183	.2588-02	.5657-02	.2630	1.858	550.5
216	135.00	1.35000	897.00	.5210-01	.3660-01	.1118	.9183	.2588-02	.5657-02	.2630	1.858	550.5
216	135.00	1.40000	898.00	.5210-01	.3660-01	.1118	.9183	.2588-02	.5657-02	.2630	1.858	550.5
216	135.00	1.45000	899.00	.5210-01	.3660-01	.1118	.9183	.2588-02	.5657-02	.2630	1.858	550.5
216	135.00	1.50000	900.00	.5210-01	.3660-01	.1118	.9183	.2588-02	.5657-02	.2630	1.858	550.5
216	135.00	1.55000	901.00	.5210-01	.3660-01	.1118	.9183	.2588-02	.5657-02	.2630	1.858	550.5
216	135.00	1.60000	902.00	.5210-01	.3660-01	.1118	.9183	.2588-02	.5657-02	.2630	1.858	550.5
216	135.00	1.65000	903.00	.5210-01	.3660-01	.1118	.9183	.2588-02	.5657-02	.2630	1.858	550.5
216	135.00	1.70000	904.00	.5210-01	.3660-01	.1118	.9183	.2588-02	.5657-02	.2630	1.858	550.5
216	135.00	1.75000	905.00	.5210-01	.3660-01	.1118	.9183	.2588-02	.5657-02	.2630	1.858	550.5
216	135.00	1.80000	906.00	.5210-01	.3660-01	.1118	.9183	.2588-02	.5657-02	.2630	1.858	550.5
216	135.00	1.85000	907.00	.5210-01	.3660-01	.1118	.9183	.2588-02	.5657-02	.2630	1.858	550.5
216	135.00	1.90000	908.00	.5210-01	.3660-01	.1118	.9183	.2588-02	.5657-02	.2630	1.858	550.5
216	135.00	1.95000	909.00	.5210-01	.3660-01	.1118	.9183	.2588-02	.5657-02	.2630	1.858	550.5
216	135.00	2.00000	910.00	.5210-01	.3660-01	.1118	.9183	.2588-02	.5657-02	.2630	1.858	550.5

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F35)

IH41(AEDC V41A-A4A) O T S (CONFIG 4) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
217	163.12	.43000	937.00	.1459	.1006	.2043	.9183	.4721-02	.9598-02	.5060	3.301	558.7
217	163.12	.44500	939.00	.1849	.1248	.2662	.9183	.5855-02	.1249-01	.6030	3.949	553.4
217	163.12	.45000	940.00	.1729	.1173	.2473	.9183	.5505-02	.1161-01	.5750	3.753	552.4
217	163.12	.50000	941.00	.9500-01	.6560-01	.1327	.9183	.3077-02	.6899-02	.3310	2.231	558.3
217	163.12	.55000	942.00	.1147	.7990-01	.1584	.9183	.3748-02	.7433-02	.4110	2.641	556.1
217	163.12	.60000	943.00	.7860-01	.5090-01	.9960-01	.9183	.2389-02	.4673-02	.2660	1.819	554.6
217	163.12	.70000	943.00	.8390-01	.4390-01	.8670-01	.9183	.2059-02	.4088-02	.2270	1.472	555.7
217	163.12	.80000	944.00	.4390-01	.3190-01	.5750-01	.9183	.1499-02	.2701-02	.1830	1.164	543.5
217	163.00	.85000	945.00	.4390-01	.3190-01	.6160-01	.9183	.1607-02	.2889-02	.1970	1.255	543.2
217	166.00	.38000	946.00	.4700-01	.3430-01	.6160-01	.9183	.2096-02	.3879-02	.2460	1.564	548.2
217	169.00	.37000	947.00	.6200-01	.4450-01	.8570-01	.9183	.2878-02	.5429-02	.3340	2.126	549.7
217	169.00	.37500	948.00	.8590-01	.6130-01	.1153	.9183	.3867-02	.7294-02	.4490	2.859	548.8
217	169.00	.39500	950.00	.7000-01	.5040-01	.9880-01	.9183	.3357-02	.6354-02	.3980	2.535	547.3
217	169.00	.39000	951.00	.8190-01	.5890-01	.1099	.9183	.2765-02	.5213-02	.3220	2.044	547.7
217	169.00	.39500	952.00	.6950-01	.4920-01	.9120-01	.9183	.2310-02	.4291-02	.2730	1.732	545.4
217	168.00	.40000	953.00	.6560-0	.4700-01	.8750-01	.9183	.2204-02	.4106-02	.2590	1.644	545.2
217	168.00	.40500	954.00	.6930-01	.4950-01	.9280-01	.9183	.2323-02	.4354-02	.2710	1.726	545.5
217	168.00	.41000	955.00	.7530-01	.5400-01	.1021	.9183	.2533-02	.4793-02	.2980	1.903	545.4
217	168.00	.41500	956.00	.8010-01	.5780-01	.1119	.9183	.2711-02	.5081-02	.3050	1.958	547.7
217	168.00	.42000	957.00	.7855	.5490-01	.1455	.9183	.3815-02	.6825-02	.3840	2.455	551.7
217	168.00	.43000	958.00	.8140-01	.1587	.9183	.3821-02	.7446-02	.4270	2.731	552.1	
217	168.00	.44000	959.00	.1744	.1194	.2564	.9183	.5603-02	.1093-01	.6110	3.926	552.3
217	168.00	.44500	960.00	.1744	.1507	.3254	.9183	.7071-02	.1378-01	.6880	4.387	552.3
217	168.00	.45000	961.00	.2062	.1403	.3037	.9183	.6585-02	.1284-01	.6710	4.338	552.3
217	168.00	.46000	962.00	.1978	.1354	.2795	.9183	.6356-02	.1239-01	.6580	4.278	552.4
217	168.00	.47000	963.00	.1996	.1220	.2573	.9183	.5725-02	.1116-01	.5830	3.843	552.3
217	168.00	.48000	964.00	.1706	.1199	.2524	.9183	.5625-02	.1096-01	.5720	3.770	552.3
217	168.00	.49000	965.00	.1757	.1006	.2068	.9183	.4721-02	.9204-02	.4810	3.149	552.3
217	168.00	.50000	966.00	.1418	.8150-01	.1650	.9183	.3816-02	.7445-02	.3890	2.507	552.3
217	168.00	.51000	967.00	.1350-01	.6450-01	.1334	.9183	.3816-02	.6980-02	.3640	2.197	552.3
217	168.00	.52000	968.00	.5110-01	.3560-01	.7040-01	.9183	.1671-02	.3256-02	.1840	1.187	552.3
217	168.00	.53000	969.00	.3430-01	.2140-01	.1035	.9183	.2413-02	.4857-02	.2610	1.680	552.3
217	168.00	.54000	970.00	.9700-01	.5660-01	.1222	.9183	.2749-02	.5737-02	.2870	1.860	552.3
217	168.00	.55000	971.00	.7230-01	.4320-01	.1062	.9183	.2319-02	.4983-02	.2340	1.518	552.3
217	168.00	.56000	972.00	.6980-01	.6580-01	.1450	.9183	.3086-02	.6834-02	.3070	2.021	552.3
217	168.00	.57000	973.00	.9030-01	.6030-01	.1340	.9183	.2831-02	.6291-02	.2800	1.866	552.3
217	168.00	.58000	974.00	.6100-01	.4020-01	.9060-01	.9183	.1989-02	.4251-02	.1850	1.334	552.3
217	168.00	.59000	975.00	.2421	.1520	.3878	.9183	.7133-02	.1830-01	.6380	4.556	552.3
217	168.00	.60000	976.00	.4573-01	.3180-01	.6320-01	.9183	.1494-02	.2955-02	.1640	1.173	552.2
217	180.00	.20000-01	982.00	.1768	.1261	.1605	.9626	.5919-02	.7533-02	.6880	4.776	549.6
217	180.00	.25000-01	983.00	.3893	.2702	.3561	.9606	.1268-01	.1671-01	1.360	9.483	557.0
217	180.00	.30000-01	984.00	.6648	.4341	.6076	.9589	.2037-01	.2851-01	1.955	13.27	569.9
217	180.00	.40000-01	600.00	.5037	.3288	.4673	.9573	.1540-01	.2189-01	1.465	9.334	565.2
214	180.00	.50000-01	601.00	.4487	.2934	.4315	.9536	.1374-01	.2021-01	1.311	8.377	564.9

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F35)

IH41(AEDC V41A-A4A) O T S (CONFIG 4) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
214	180.00	.60000-01	602.00	.3356	.2146	.3343	.9504	.1005-01	.1566-01	.9200	6.063	568.7
214	180.00	.70000-01	603.00	.3014	.1955	.3112	.9471	.9155-02	.1458-01	.8600	5.810	566.4
214	180.00	.80000-01	604.00	.2760	.1803	.2947	.9440	.8447-02	.1381-01	.8040	5.184	565.1
214	180.00	.10000+00	605.00	.1985	.1337	.2238	.9383	.6265-02	.1048-01	.6340	4.521	559.1
214	180.00	.15000	606.00	.1185	.8070-01	.1518	.9271	.3781-02	.7063-02	.3920	2.834	556.7
214	180.00	.20000	607.00	.5720-01	.4030-01	.7620-01	.9202	.1889-02	.3568-02	.2110	1.378	548.4
214	180.00	.21000	608.00	.4920-01	.3490-01	.6560-01	.9194	.1634-02	.3072-02	.1850	1.284	546.6
214	180.00	.22000	609.00	.3710-01	.2630-01	.4980-01	.9188	.1230-02	.2334-02	.1390	1.038	547.1
214	180.00	.23000	610.00	.3520-01	.2480-01	.4780-01	.9183	.1162-02	.2209-02	.1260	.8850	548.2
214	180.00	.24000	611.00	.3400-01	.2410-01	.4680-01	.9183	.1129-02	.2149-02	.1220	.8550	545.6
214	180.00	.26000	612.00	.4050-01	.2870-01	.5520-01	.9183	.1343-02	.2557-02	.1520	1.021	547.2
214	180.00	.28000	614.00	.8110-01	.5610-01	.1130	.9183	.2828-02	.5292-02	.3220	1.887	553.1
214	180.00	.27500	614.00	.7870-01	.5530-01	.1106	.9183	.2599-02	.5179-02	.2980	1.872	552.4
214	180.00	.28000	615.00	.7730-01	.5390-01	.1078	.9183	.2628-02	.5049-02	.2730	1.826	552.4
214	180.00	.28500	616.00	.7730-01	.5390-01	.1078	.9183	.2628-02	.5049-02	.2730	1.826	551.6
214	180.00	.29000	617.00	.6880-01	.4860-01	.9680-01	.9183	.2260-02	.4486-02	.2460	1.642	552.5
214	180.00	.30000	618.00	.6880-01	.4770-01	.9560-01	.9183	.2238-02	.4378-02	.2410	1.618	553.7
214	180.00	.32000	619.00	.7160-01	.4940-01	.9930-01	.9183	.2331-02	.4561-02	.2540	1.704	554.9
214	180.00	.34000	620.00	.7610-01	.5160-01	.1057	.9183	.2476-02	.4851-02	.2850	1.912	555.9
214	180.00	.36000	621.00	.8980-01	.6170-01	.1403	.9183	.2907-02	.5607-02	.3520	2.415	558.7
214	180.00	.38000	622.00	.1168	.7820-01	.1624	.9183	.3813-02	.7307-02	.4640	3.140	563.8
214	180.00	.40000	624.00	.1627	.1070	.2427	.9183	.5216-02	.1023-01	.6660	4.496	565.9
214	180.00	.42500	625.00	.1988	.1284	.2939	.9183	.6316-02	.1423-01	.8770	5.740	566.0
214	180.00	.45000	626.00	.2617	.1638	.4213	.9183	.7654-02	.1973-01	.8630	5.968	573.4
214	180.00	.47500	627.00	.2813	.1621	.4271	.9183	.7583-02	.2000-01	.8580	5.966	570.5
214	180.00	.48000	628.00	.2824	.1407	.3822	.9183	.6513-02	.1800-01	.8130	5.503	563.1
214	180.00	.48500	629.00	.2706	.1126	.2883	.9183	.5278-02	.1586-01	.6440	4.368	557.7
214	180.00	.49000	630.00	.2357	.9210-01	.1941	.9183	.4313-02	.9092-02	.4430	3.027	552.9
214	180.00	.49500	631.00	.1870-01	.4830-01	.9700-01	.9183	.2161-02	.4543-02	.2430	1.824	550.8
214	180.00	.50000	632.00	.1430-01	.2260-01	.4880-01	.9183	.1086-02	.2289-02	.1320	1.024	550.5
214	180.00	.51000	633.00	.1180-01	.1800-01	.4660-01	.9183	.9143-03	.1923-02	.1040	.8170	551.2
214	180.00	.52000	634.00	.1160	.7240-01	.1546	.9183	.3555-02	.7240-02	.3270	2.672	558.7
214	180.00	.53000	635.00	.1099	.6810-01	.1492	.9183	.3383-02	.6982-02	.3150	2.580	557.0
214	180.00	.54000	636.00	.1060	.6610-01	.1445	.9183	.3284-02	.6779-02	.3060	2.508	555.8
214	180.00	.55000	637.00	.1040	.6510-01	.1425	.9183	.3234-02	.6677-02	.3010	2.472	555.3
214	180.00	.56000	638.00	.1020	.6410-01	.1405	.9183	.3184-02	.6574-02	.2960	2.436	554.8
214	180.00	.57000	639.00	.1000	.6310-01	.1385	.9183	.3134-02	.6471-02	.2910	2.400	554.3
214	180.00	.58000	640.00	.9810-01	.6210-01	.1365	.9183	.3084-02	.6368-02	.2860	2.364	553.8
214	180.00	.59000	641.00	.9620-01	.6110-01	.1345	.9183	.3034-02	.6265-02	.2810	2.328	553.3
214	180.00	.60000	642.00	.9430-01	.6010-01	.1325	.9183	.2984-02	.6162-02	.2760	2.292	552.8
214	180.00	.61000	643.00	.9240-01	.5910-01	.1305	.9183	.2934-02	.6059-02	.2710	2.256	552.3
214	180.00	.62000	644.00	.9050-01	.5810-01	.1285	.9183	.2884-02	.5956-02	.2660	2.220	551.8
214	180.00	.63000	645.00	.8860-01	.5710-01	.1265	.9183	.2834-02	.5853-02	.2610	2.184	551.3
214	180.00	.64000	646.00	.8670-01	.5610-01	.1245	.9183	.2784-02	.5750-02	.2560	2.148	550.8
214	180.00	.65000	647.00	.8480-01	.5510-01	.1225	.9183	.2734-02	.5647-02	.2510	2.112	550.3
214	180.00	.66000	648.00	.8290-01	.5410-01	.1205	.9183	.2684-02	.5544-02	.2460	2.076	549.8
214	180.00	.67000	649.00	.8100-01	.5310-01	.1185	.9183	.2634-02	.5441-02	.2410	2.040	549.3
214	180.00	.68000	650.00	.7910-01	.5210-01	.1165	.9183	.2584-02	.5338-02	.2360	2.004	548.8
214	180.00	.69000	651.00	.7720-01	.5110-01	.1145	.9183	.2534-02	.5235-02	.2310	1.968	548.3
214	180.00	.70000	652.00	.7530-01	.5010-01	.1125	.9183	.2484-02	.5132-02	.2260	1.932	547.8
214	180.00	.71000	653.00	.7340-01	.4910-01	.1105	.9183	.2434-02	.5029-02	.2210	1.896	547.3
214	180.00	.72000	654.00	.7150-01	.4810-01	.1085	.9183	.2384-02	.4926-02	.2160	1.860	546.8
214	180.00	.73000	655.00	.6960-01	.4710-01	.1065	.9183	.2334-02	.4823-02	.2110	1.824	546.3
214	180.00	.74000	656.00	.6770-01	.4610-01	.1045	.9183	.2284-02	.4720-02	.2060	1.788	545.8
214	180.00	.75000	657.00	.6580-01	.4510-01	.1025	.9183	.2234-02	.4617-02	.2010	1.752	545.3
214	180.00	.76000	658.00	.6390-01	.4410-01	.1005	.9183	.2184-02	.4514-02	.1960	1.716	544.8
214	180.00	.77000	659.00	.6200-01	.4310-01	.9850-01	.9183	.2134-02	.4411-02	.1910	1.680	544.3
214	180.00	.78000	660.00	.6010-01	.4210-01	.9650-01	.9183	.2084-02	.4308-02	.1860	1.644	543.8
214	180.00	.79000	661.00	.5820-01	.4110-01	.9450-01	.9183	.2034-02	.4205-02	.1810	1.608	543.3
214	180.00	.80000	662.00	.5630-01	.4010-01	.9250-01	.9183	.1984-02	.4102-02	.1760	1.572	542.8
214	180.00	.81000	663.00	.5440-01	.3910-01	.9050-01	.9183	.1934-02	.3999-02	.1710	1.536	542.3
214	180.00	.82000	664.00	.5250-01	.3810-01	.8850-01	.9183	.1884-02	.3896-02	.1660	1.500	541.8
214	180.00	.83000	665.00	.5060-01	.3710-01	.8650-01	.9183	.1834-02	.3793-02	.1610	1.464	541.3
214	180.00	.84000	666.00	.4870-01	.3610-01	.8450-01	.9183	.1784-02	.3690-02	.1560	1.428	540.8
214	180.00	.85000	667.00	.4680-01	.3510-01	.8250-01	.9183	.1734-02	.3587-02	.1510	1.392	540.3
214	180.00	.86000	668.00	.4490-01	.3410-01	.8050-01	.9183	.1684-02	.3484-02	.1460	1.356	539.8
214	180.00	.87000	669.00	.4300-01	.3310-01	.7850-01	.9183	.1634-02	.3381-02	.1410	1.320	539.3
214	180.00	.88000	670.00	.4110-01	.3210-01	.7650-01	.9183	.1584-02	.3278-02	.1360	1.284	538.8
214	180.00	.89000	671.00	.3920-01	.3110-01	.7450-01	.9183	.1534-02	.3175-02	.1310	1.248	538.3
214	180.00	.90000	672.00	.3730-01	.3010-01	.7250-01	.9183	.1484-02	.3072-02	.1260	1.212	537.8
214	180.00	.91000	673.00	.3540-01	.2910-01	.7050-01	.9183	.1434-02	.2969-02	.1210	1.176	537.3
214	180.00	.92000	674.00	.3350-01	.2810-01	.6850-01	.9183	.1384-02	.2866-02	.1160	1.140	536.8
214	180.00	.93000	675.00	.3160-01	.2710-01	.6650-01	.9183	.1334-02	.2763-02	.1110	1.104	536.3
214	180.00	.94000	676.00	.2970-01	.2610-01	.6450-01	.9183	.1284-02	.2660-02	.1060	1.068	535.8
214	180.00	.95000	677.00	.2780-01	.2510-01	.6250-01	.9183	.1234-02	.2557-02	.1010	1.032	535.3
214	180.00	.96000	678.00	.2590-01	.2410-01	.6050-01	.9183	.1184-02	.2454-02	.9600-01	.9960	534.8
214	180.00	.97000	679.00	.2400-01	.2310-01	.5850-01	.9183	.1134-02	.2351-02	.9100-01	.9600	534.3
214	180.00	.98000	680.00	.2210-01	.2210-01	.5650-01	.9183	.1084-02	.2248-02	.8600-01	.9240	533.8
214	180.00	.99000	681.00	.2020-01	.2110-01	.5450-01	.9183	.1034-02	.2145-02	.8100-01	.8880	533.3
214	180.00	.10000+00	682.00	.1830-01	.2010-01	.5250-01	.9183	.9840-03	.2042-02	.7600-01	.8520	532.8
214	180.00	.10100+00	683.00	.1640-01	.1910-01	.5050-01	.9183	.9340-03	.1939-02	.7100-01	.8160	532.3
214	180.00	.10200+00	684.00	.1450-01	.1810-01	.4850-01	.9183	.8840-03	.1836-02	.6600-01	.7800	531.8
214	180.00	.10300+00	685.00	.1260-01	.1710-01	.4650-01	.9183	.8340-03	.1733-02	.6100-01	.7440	531.3
214	180.00	.10400+00	686.00	.1070-01	.1610-01	.4450-01	.9183	.7840-03	.1630-02	.5600-01	.7080	530.8
214	180.00	.10500+00	687.00	.8800-02	.1510-01	.4250-01	.9183	.7340-03	.1527-02	.5100-01	.6720	530.3
214	180.00	.10600+00	688.00	.6900-02	.1410-01	.4050-01	.9183	.6840-03	.1424-02	.4600-01	.6360	529.8
214	180.00	.10700+00	689.00	.5000-02	.1310-01	.3850-01	.9183	.6340-03	.1321-02	.4100-01	.6000	529.3
214	180.00	.10800+00	690.00	.3100-02	.1210-01	.3650-01	.9183	.5840-03	.1218-02	.3600-01	.5640	528.8
214	180.00	.10900+00	691.00	.1200-02	.1110-01	.3450-01	.9183	.5340-03	.1115-02	.3100-01	.5280	528.3
214	180.00	.11000+00	692.00	.1000-03	.1010-01	.3250-01	.9183	.4840-03	.1012-02	.2600-01	.4920	527.8
214	180.00	.11100+00	693.00	.1000-03	.9100-02	.3050-01	.9183	.4340-03	.9090-03	.2100-01	.4560	527.3
214	180.00	.11200+00	694.00	.1000-03	.8100-02	.2850-01	.9183	.3840-03	.8060-03	.1600-01	.4200	526.8
214	180.00	.11300+00	695.00	.1000-03	.7100-02	.2650-01	.9183	.3340-03	.7030-03	.1100-01	.3840	526.3
214	180.00	.11400+00	696.00	.1000-03	.6100-02	.2450-01	.9183	.2840-03	.6000-03	.6000-02	.3480	525.8
214	180.00	.11500+00	697.00	.1000-03	.5100-02	.2250-01	.9183	.2340-03	.4970-03	.1000-02	.3120	525.3
214	180.00	.11600+00	698.00	.1000-03	.4100-02	.2050-01	.9183	.1840-03	.3940-03	.1000-02	.2760	524.8
214	180.00	.11700+00	699.00	.1000-03	.3100-02	.1850-01	.9183	.1340-03	.2910-03	.1000-02	.2400	524.3
214	180.00	.11800+00	700.00	.1000-03	.2100-02	.1650-01	.9183	.8400-04	.1880-03	.1000-02	.2040	523.8
214	180.00	.11900+00	701.00	.1000-03	.1100-02	.1450-01	.9183	.3400-04	.8500-04	.1000-02	.1680	523.3
214	180.00	.12000+00	702.00	.1000-03	.1000-03	.1250-01	.9183	.3400-04	.8500-04	.1000-02	.1320	522.8
214	180.00	.12100+00	703.00	.1000-03	.1000-03	.1050-01	.9183	.3400-04	.8500-04	.1000-02	.9600-01	522.3
214	180.00	.12200+00	704.00	.1000-03	.1000-03	.8500-02	.9183	.3400-04	.8500-04	.1000-02	.6000-01	521.8
214	180.00	.12300+00	705.00	.1000-03	.1000-03	.6500-02	.9183	.3400-04	.8500-04	.1000-02	.2400-01	521.3

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F35)

IH41(AEDC V41A-A4A) O T S (CONFIG 4) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
214	180.00	.95000	649.00	.2870-01	.1990-01	.4000-01	.9183	.9317-03	.1873-02	.1000+00	.7200	553.0
214	191.25	.35000	650.00	.3710-01	.2620-01	.5040-01	.9183	.1227-02	.2352-02	.1380	.9250	548.0
214	191.25	.36000	651.00	.4720-01	.3340-01	.6400-01	.9183	.1563-02	.2999-02	.1760	1.185	547.7
214	191.25	.37000	652.00	.7160-01	.5010-01	.9830-01	.9183	.2347-02	.4603-02	.2680	1.733	550.2
214	191.25	.37500	653.00	.7370-01	.5130-01	.1019	.9183	.2405-02	.4771-02	.2820	1.759	551.5
214	191.25	.38000	654.00	.7630-01	.5330-01	.1050	.9183	.2496-02	.4920-02	.2730	1.839	550.8
214	191.25	.38500	655.00	.7520-01	.5240-01	.1038	.9183	.2453-02	.4863-02	.2670	1.796	551.5
214	191.25	.39000	656.00	.7530-01	.5230-01	.1044	.9183	.2448-02	.4890-02	.2640	1.778	552.3
214	191.25	.39500	657.00	.8370-01	.5790-01	.1167	.9183	.2714-02	.5467-02	.2910	1.954	553.2
214	191.25	.40000	658.00	.9310-01	.6410-01	.1305	.9183	.3002-02	.6111-02	.3180	2.144	554.3
214	191.25	.40500	659.00	.9680-01	.6640-01	.1365	.9183	.3111-02	.6393-02	.3270	2.202	555.2
214	191.25	.41000	660.00	.1037	.7110-01	.1464	.9183	.3329-02	.6856-02	.3480	2.343	555.4
214	191.25	.41500	661.00	.1041	.7160-01	.1462	.9183	.3353-02	.6847-02	.3540	2.373	554.6
214	191.25	.42000	662.00	.1230	.8300-01	.1773	.9183	.3996-02	.8304-02	.3540	2.640	558.9
214	191.25	.42500	663.00	.1517	.1011	.2222	.9183	.4737-02	.1041-01	.4690	3.149	561.3
214	191.25	.43000	664.00	.1945	.1250	.3004	.9183	.5956-02	.1407-01	.5410	3.654	567.9
214	191.25	.43500	665.00	.2256	.1438	.3529	.9183	.6736-02	.1653-01	.6130	4.113	569.3
214	191.25	.44000	666.00	.1877	.1244	.2773	.9183	.5825-02	.1299-01	.5700	3.834	562.5
214	191.25	.44500	667.00	.1698	.1126	.2505	.9183	.5274-02	.1173-01	.5170	3.478	562.3
214	191.25	.45000	668.00	.1390	.9260-01	.2038	.9183	.4335-02	.9548-02	.4280	2.893	561.5
214	191.25	.45500	669.00	.1235	.8320-01	.1787	.9183	.3956-02	.8373-02	.3930	2.656	559.4
214	191.25	.46000	670.00	.1220	.8280-01	.1742	.9183	.3879-02	.8161-02	.3990	2.708	557.5
214	191.25	.46500	671.00	.1269	.8600-01	.1843	.9183	.4035-02	.8496-02	.3910	2.804	559.2
214	191.25	.47000	672.00	.1472	.9790-01	.2163	.9183	.4565-02	.1013-01	.4520	3.118	561.8
214	191.25	.47500	673.00	.1018	.7010-01	.1428	.9183	.3285-02	.6638-02	.3480	2.225	554.2
214	191.25	.48000	674.00	.1049	.7070-01	.1514	.9183	.3311-02	.7090-02	.3350	2.266	559.1
214	191.25	.70000	676.00	.6370-01	.4390-01	.8910-01	.9183	.2059-02	.4176-02	.2190	1.380	553.9
214	191.25	.85000	677.00	.8110-01	.5560-01	.1143	.9183	.2607-02	.5352-02	.2740	1.745	555.1
214	191.25	.86000	678.00	.8390-01	.5730-01	.1187	.9183	.2684-02	.5559-02	.2800	1.797	556.0
214	191.25	.87000	679.00	.8220-01	.5570-01	.1170	.9183	.2603-02	.5488-02	.2690	1.743	557.4
214	191.25	.88000	680.00	.8030-01	.5400-01	.1164	.9183	.2557-02	.5455-02	.2540	1.671	559.8
214	191.25	.89000	681.00	.6290-01	.4190-01	.9220-01	.9183	.1961-02	.4318-02	.1940	1.297	561.5
214	191.25	.90000	682.00	.4140-01	.2760-01	.6080-01	.9183	.1291-02	.2947-02	.1280	.9230	561.6
214	191.25	.91000	683.00	.2957	.1867	.4694	.9183	.8746-02	.2199-01	.7830	5.664	570.7
214	191.25	.92600	684.00	.2540-01	.1770-01	.3520-01	.9183	.8279-03	.1650-02	.9000-01	.6460	552.0
214	191.25	.95000	685.00	.3480-01	.2480-01	.4690-01	.9183	.1160-02	.2138-02	.1330	.8920	546.0
214	197.00	.33000	686.00	.3580-01	.2540-01	.4830-01	.9183	.1190-02	.2261-02	.1350	.9100	546.5
214	197.00	.34000	687.00	.3810-01	.2710-01	.5140-01	.9183	.1267-02	.2407-02	.1440	.9700	546.4
214	197.00	.35000	688.00	.5760-01	.4050-01	.7870-01	.9183	.1899-02	.3666-02	.2110	1.419	549.0
214	197.00	.36000	689.00	.7250-01	.5070-01	.9990-01	.9183	.2374-02	.4675-02	.2600	1.745	550.7
214	197.00	.37000	690.00	.6850-01	.4750-01	.9520-01	.9183	.2226-02	.4457-02	.2400	1.613	552.5
214	197.00	.37500	691.00	.2086	.1298	.3391	.9183	.6079-02	.1588-01	.5310	3.524	572.9
214	197.00	.50000	692.00	.8250-01	.5700-01	.1150	.9183	.2672-02	.5386-02	.2860	1.839	553.2
214	197.00	.60000	692.00	.8250-01	.5700-01	.1150	.9183	.2672-02	.5386-02	.2860	1.839	553.2

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F35)

IH41(AEDC V41A-A4A) O T S (CONFIG 4) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
214	197.00	.70000	693.00	.1213	.7950-01	.1822	.9183	.3722-02	.8535-02	.3560	2.393	564.6
214	197.00	.80000	694.00	.4810-01	.3370-01	.6600-01	.9183	.1577-02	.3092-02	.1740	1.089	550.2
214	197.00	.87000	695.00	.7730-01	.5260-01	.1101	.9183	.2466-02	.5155-02	.2550	1.617	556.9
214	197.00	.92600	696.00	.2827	.1761	.4598	.9183	.8250-02	.2149-01	.7220	5.218	572.7
215	209.80	.15000-01	697.00	.1438	.1008	.1971	.9183	.4721-02	.9231-02	.0000	.0000	537.7
215	209.90	.30000-01	698.00	.5966	.3952	.5472	.9589	.1852-01	.2654-01	1.821	12.28	565.4
215	209.80	.50000-01	699.00	.4562	.3104	.4406	.9538	.1455-01	.2065-01	1.511	9.539	559.9
215	209.80	.70000-01	700.00	.3952	.2544	.4083	.9471	.1192-01	.1914-01	1.310	7.419	570.6
215	209.80	.10000+00	701.00	.2521	.1724	.2825	.9383	.8078-02	.1324-01	.8460	5.372	558.8
215	209.80	.15000	702.00	.9530-01	.6770-01	.1195	.9271	.3172-02	.5600-02	.3540	2.527	552.1
215	209.80	.20000	703.00	.4680-01	.3400-01	.6020-01	.9202	.1594-02	.2823-02	.1840	1.294	542.2
215	209.80	.30000	704.00	.4160-01	.3000-01	.5500-01	.9183	.1408-02	.2593-02	.1680	1.193	544.3
215	209.80	.37500	706.00	.9160-01	.6510-01	.1235	.9183	.3052-02	.5787-02	.3590	2.402	549.0
215	209.80	.50000	707.00	.1674	.1137	.2398	.9183	.5330-02	.1119-01	.6820	3.752	560.2
215	209.80	.60000	708.00	.8850-01	.6240-01	.1203	.9183	.2825-02	.5639-02	.3300	2.096	551.1
215	209.80	.70000	709.00	.7670-01	.5350-01	.1057	.9183	.2508-02	.4955-02	.2750	1.750	553.9
215	209.80	.80000	710.00	.3920-01	.2790-01	.5270-01	.9183	.1306-02	.2471-02	.1500	.9350	548.8
215	209.80	.87000	711.00	.6270-01	.4370-01	.8660-01	.9183	.2047-02	.4060-02	.2340	1.409	554.4
215	209.80	.92600	712.00	.1403	.9110-01	.2133	.9183	.4272-02	.9396-02	.4060	2.909	569.1
215	217.70	.15000-01	713.00	.1961	.1380	.2645	.9183	.6470-02	.1248-01	.7540	5.045	550.3
215	217.70	.30000-01	714.00	.5752	.3829	.5282	.9589	.1796-01	.2476-01	.1782	12.02	564.5
215	217.70	.50000-01	715.00	.4586	.3142	.4432	.9538	.1473-01	.2077-01	.1553	10.08	550.3
215	217.70	.70000-01	716.00	.4033	.2610	.4232	.9471	.1223-01	.1934-01	.1420	7.550	572.2
215	217.70	.10000+00	717.00	.2031	.1418	.2359	.9383	.6644-02	.1059-01	.7320	4.721	552.9
215	217.70	.15000	718.00	.9420-01	.6630-01	.1168	.9271	.3108-02	.5472-02	.3480	2.542	551.7
215	217.70	.20000	719.00	.4830-01	.3520-01	.6200-01	.9202	.1647-02	.2907-02	.2010	1.361	541.5
215	217.70	.30000	720.00	.4830-01	.3470-01	.6430-01	.9183	.1639-02	.3018-02	.1920	1.376	545.7
215	217.70	.35000	721.00	.5550-01	.4020-01	.7310-01	.9183	.1894-02	.3427-02	.2270	1.574	543.4
215	217.70	.37500	722.00	.5090-01	.3680-01	.6730-01	.9183	.1726-02	.3163-02	.2070	1.435	543.9
215	217.70	.50000	723.00	.1528	.1054	.2137	.9183	.4933-02	.1002-01	.6880	3.639	556.8
215	217.70	.70000	726.00	.5030-01	.3570 01	.6790-01	.9183	.1671-02	.3191-02	.1910	1.212	549.5
215	217.70	.80000	726.00	.3840-01	.2740-01	.5170-01	.9183	.1283-02	.2421-02	.1460	.9300	548.4
215	217.70	.87000	727.00	.7700-01	.5130-01	.1027	.9183	.2436-02	.4912-02	.2610	1.661	555.3
215	217.70	.92600	728.00	.9080-01	.6000-01	.1346	.9183	.2911-02	.6308-02	.2750	1.980	565.9

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RVTF35)

IH41(AEDC V41A-A4A) O T S (CONFIG 4) TANK DATA

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = .0000 BETA = .0000 GRIT = .0000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
210	5.500	5.004	.0000	.0000	.0000	178.1	.1910	740.0	104.9	4.054	2760.	.1531-03
211	5.500	5.008	.0000	.0000	.0000	178.4	.1920	740.0	105.0	4.060	2761.	.1533-03
212	5.500	4.991	.1000-01	.0000	.0000	177.8	.1910	740.0	105.0	4.047	2761.	.1528-03
213	5.500	5.047	.1000-01	.0000	.0000	178.1	.1910	735.0	104.3	4.053	2752.	.1540-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
210	.8446-07	.4478-01	.1360-01
211	.8450-07	.4482-01	.1359-01
212	.8451-07	.4475-01	.1361-01
213	.8398-07	.4474-01	.1355-01

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
212	.00000	.30000-02	730.00	.2481	.1698	.2192	.9543	.7539-02	.9807-02	.8910	5.893	622.8
212	.00000	.10300-01	731.00	.2324	.1771	.3022	.9130	.7924-02	.1352-01	1.232	8.327	584.5
212	.00000	.18000-01	732.00	.2591	.2001	.3314	.9130	.8956-02	.1483-01	1.456	9.753	577.5
212	.00000	.25000-01	733.00	.1870	.1249	.1556	.9608	.5589-02	.6964-02	.8210	5.506	593.2
212	.00000	.40000-01	737.00	.4056	.2646	.3827	.9556	.1184-01	.1713-01	1.260	7.874	633.7
212	.00000	.45000-01	738.00	.4655	.3030	.4471	.9539	.1356-01	.2001-01	1.437	9.111	634.1
212	.00000	.60000-01	739.00	.3123	.2167	.3161	.9487	.9638-02	.1414-01	1.172	7.600	619.2
212	.00000	.70000-01	740.00	.2392	.2139	.3108	.9454	.9665-02	.1391-01	1.239	8.116	610.5
212	.00000	.80000-01	741.00	.2498	.1820	.2651	.9422	.8144-02	.1186-01	1.111	7.250	603.7
212	.00000	.10000+00	742.00	.2382	.1812	.2607	.9353	.8109-02	.1167-01	1.254	8.215	585.5
212	.00000	.12500	743.00	.1698	.1321	.1921	.9297	.5910-02	.8594-02	.9859	7.064	573.5
212	.00000	.15000	744.00	.1317	.1045	.1523	.9240	.4675-02	.6814-02	.8370	5.780	560.9
212	.00000	.17500	745.00	.8020-01	.6420-01	.9450-01	.9194	.2874-02	.4231-02	.5350	4.008	553.5
212	.00000	.20000	746.00	.5390-01	.4350-01	.6440-01	.9158	.1947-02	.2884-02	.3730	2.670	548.2
212	.00000	.21500	747.00	.4060-01	.3280-01	.4890-01	.9143	.1466-02	.2186-02	.2820	1.956	547.5
212	.00000	.23000	748.00	.2950-01	.2380-01	.3580-01	.9133	.1067-02	.1603-02	.2050	1.511	548.3

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F35)

IH41(AEDC V41A-A4A) O T S (CONFIG 4) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
212	.00000	.24000	749.00	.2410-01	.1950-01	.2920-01	.9130	.8710-03	.1307-02	.1680	1.267	547.1
212	.00000	.25000	750.00	.1060-01	.8500-02	.1280-01	.9130	.3823-03	.5742-03	.7400-01	.5960	547.4
212	.00000	.30000	751.00	.2910-01	.2350-01	.3530-01	.9130	.1053-02	.1578-02	.2040	1.336	546.7
212	.00000	.40000	753.00	.3670-01	.2970-01	.4440-01	.9130	.1328-02	.1987-02	.2580	1.658	546.0
212	.00000	.50000	754.00	.5390-01	.4310-01	.6630-01	.9130	.1929-02	.2966-02	.3550	2.313	555.9
212	.00000	.60000	755.00	.4640-01	.3720-01	.5700-01	.9130	.1662-02	.2549-02	.3080	1.965	554.9
212	.00000	.70000	756.00	.4260-01	.3390-01	.5270-01	.9130	.1515-02	.2358-02	.2730	1.788	560.1
212	.00000	.80000	757.00	.3520-01	.2800-01	.4340-01	.9130	.1254-02	.1942-02	.2280	1.420	559.3
212	.00000	.90000	758.00	.1760-01	.1400-01	.2180-01	.9130	.6267-03	.9765-03	.1130	.7240	560.3
212	55.000	.22000	759.00	.3370-01	.2720-01	.4080-01	.9139	.1217-02	.1827-02	.2320	1.726	549.2
212	55.000	.25000	760.00	.1050-01	.8500-02	.1280-01	.9130	.3806-03	.5719-03	.7300-01	.5730	547.6
212	55.000	.27000	761.00	.1070-01	.8600-02	.1300-01	.9130	.3841-03	.5799-03	.7300-01	.5440	549.4
212	55.000	.30000	762.00	.3050-01	.2470-01	.3700-01	.9130	.1104-02	.1654-02	.2130	1.284	546.7
212	55.000	.32000	763.00	.5380-01	.4830-01	.7250-01	.9130	.2161-02	.3244-02	.4160	2.464	547.3
212	55.000	.34000	764.00	.5480-01	.4410-01	.6670-01	.9130	.1975-02	.2983-02	.3760	2.228	549.6
212	55.000	.36000	765.00	.5090-01	.4100-01	.6210-01	.9130	.1834-02	.2781-02	.3470	2.090	551.0
212	55.000	.38000	765.00	.8740-01	.6990-01	.1072	9130	.3129-02	.4798-02	.5790	3.507	554.9
212	55.000	.40000	767.00	.8230-01	.6590-01	.1008	.9130	.2948-02	.4512-02	.5480	3.410	554.3
212	67.500	.23000	768.00	.3300-01	.2660-01	.4010-01	.9133	.1189-02	.1796-02	.2260	1.675	550.3
212	67.500	.25000	769.00	.1030-01	.8300-02	.1260-01	.9130	.3735-03	.5624-03	.7200-01	.5560	548.4
212	67.500	.27000	770.00	.1330-01	.1070-01	.1620-01	.9130	.4807-03	.7265-03	.9100-01	.6660	549.8
212	67.500	.29000	771.00	.1930-01	.1550-01	.2350-01	.9130	.6953-03	.1050-02	.1330	.8210	549.3
212	67.500	.30000	772.00	.6190-01	.4980-01	.7550-01	.9130	.2228-02	.3380-02	.4210	2.567	551.1
212	67.500	.31000	773.00	.6590-01	.5290-01	.8050-01	.9130	.2366-02	.3603-02	.4440	2.682	552.5
212	67.500	.32000	774.00	.6760-01	.5420-01	.8280-01	.9130	.2425-02	.3706-02	.4520	2.707	553.8
212	67.500	.32500	775.00	.7300-01	.5840-01	.8960-01	.9130	.2613-02	.4011-02	.4820	2.896	555.4
212	67.500	.33000	776.00	.8390-01	.6680-01	.1037	.9130	.2988-02	.4639-02	.5400	3.246	559.2
212	67.500	.33500	777.00	.9960-01	.7890-01	.1236	.9130	.3531-02	.5530-02	.6290	3.774	561.9
212	67.500	.34000	778.00	.1076	.8500-01	.1340	.9130	.3802-02	.5997-02	.6690	4.008	564.2
212	67.500	.34500	779.00	.1239	.9740-01	.1552	.9130	.4358-02	.6944-02	.7540	4.522	567.1
212	67.500	.35000	780.00	.1307	.1026	.1639	.9130	.4590-02	.7335-02	.7900	4.74-	568.0
212	67.500	.36000	782.00	.1527	.1197	.1920	.9130	.5356-02	.8591-02	.9160	5.521	569.1
212	67.500	.36500	783.00	.1395	.1100	.1740	.9130	.4924-02	.7784-02	.8330	5.198	564.8
212	67.500	.37000	784.00	.1219	.9660-01	.1511	.9130	.4324-02	.6763-02	.7720	4.683	561.5
212	67.500	.37500	785.00	.1082	.8600-01	.1338	.9130	.3847-02	.5987-02	.6930	4.244	559.9
212	67.500	.38000	786.00	.9760-01	.7760-01	.1205	.9130	.3474-02	.5390-02	.6290	3.863	559.0
212	67.500	.39000	787.00	.8260-01	.6590-01	.1017	.9130	.2949-02	.4551-02	.5390	3.325	557.1
212	67.500	.40000	788.00	.7360-01	.5890-01	.9020-01	.9130	.2637-02	.4038-02	.4890	3.045	554.5
212	67.500	.50000	789.00	.3060-01	.2450-01	.3760-01	.9130	.1096-02	.1685-02	.2020	1.289	555.8
212	67.500	.60000	790.00	.2730-01	.2180-01	.3350-01	.9130	.9759-03	.1499-02	.1800	1.176	555.6
212	67.500	.70000	791.00	.3240-01	.2560-01	.4030-01	.9130	.1145-02	.1804-02	.2020	1.413	563.8
212	67.500	.80000	792.00	.1890-01	.1500-01	.2340-01	.9130	.6700-03	.1045-02	.1200	.7500	560.8
212	67.500	.90000	793.00	.4010-01	.3140-01	.5030-01	.9130	.1406-02	.2252-02	.2410	1.538	568.6

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F35)

IH41(AEDC V41A-A4A) O T S (CONFIG 4) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
212	78.000	.27000	794.00	.1220-01	.9800-02	.1490-01	.9130	.4392-03	.6652-03	.8300-01	.5930	550.5
212	78.000	.29000	795.00	.5130-01	.4120-01	.6270-01	.9130	.1844-02	.2806-02	.0000	.0000	187.9
213	78.000	.30000	796.00	.1074	.8530-01	.1328	.9130	.3819-02	.5942-02	.6840	4.124	556.3
213	78.000	.31000	797.00	.1429	.1116	.1804	.9130	.4991-02	.8071-02	.8370	5.020	567.7
213	78.000	.32000	798.00	.1643	.1263	.2114	.9130	.5651-02	.9459-02	.8980	5.335	576.4
213	78.000	.32500	799.00	.1799	.1377	.2326	.9130	.6160-02	.1041-01	.9660	5.745	578.6
213	78.000	.33000	800.00	.1885	.1439	.2447	.9130	.6436-02	.1095-01	.9990	5.941	580.1
213	78.000	.33500	801.00	.1985	.1506	.2596	.9130	.6738-02	.1161-01	1.027	6.095	583.0
213	78.000	.34000	802.00	.1984	.1503	.2599	.9130	.6723-02	.1163-01	1.019	6.049	583.7
213	78.000	.34500	803.00	.2016	.1532	.2633	.9130	.6853-02	.1178-01	1.048	6.243	582.4
213	78.000	.35000	804.00	.1981	.1519	.2557	.9130	.6796-02	.1144-01	1.071	6.395	577.7
213	78.000	.35500	805.00	.1938	.1540	.2533	.9130	.6891-02	.1134-01	1.125	6.731	572.2
213	78.000	.36000	806.00	.1645	.1434	.2343	.9130	.6416-02	.1048-01	1.058	6.356	570.4
213	78.000	.36500	807.00	.1550	.1208	.1961	.9130	.5405-02	.8773-02	.9010	5.431	568.7
213	78.000	.37000	808.00	.1194	.9350-01	.1501	.9130	.4184-02	.6714-02	.7110	4.302	565.5
213	78.000	.37500	809.00	.1092	.8580-01	.1369	.9130	.3838-02	.6123-02	.6580	3.985	564.0
213	78.000	.38000	810.00	.8860-01	.6990-01	.1105	.9130	.3129-02	.4945-02	.5450	3.325	561.1
213	78.000	.39000	811.00	.6940-01	.5490-01	.8620-01	.9130	.2455-02	.3859-02	.4320	2.643	559.5
213	78.000	.40000	812.00	.2724	.2027	.3654	.9130	.9067-02	.1635-01	1.303	7.849	591.7
210	90.000	.40000-01	985.00	.4254	.2941	.4051	.9556	.1317-01	.1814-01	1.578	9.900	619.8
210	90.000	.50000-01	986.00	.4286	.2975	.4209	.9521	.1332-01	.1885-01	1.611	10.05	618.7
210	90.000	.60000-01	987.00	.3236	.2310	.3272	.9486	.1035-01	.1465-01	1.337	8.528	610.3
210	90.000	.80000-01	989.00	.2548	.1861	.2704	.9422	.8333-02	.1211-01	1.142	7.870	602.5
210	90.000	.15000	991.00	.1082	.8420-01	.1270	.9240	.3769-02	.5687-02	.6280	4.553	572.9
213	90.000	.24000	814.00	.2350-01	.1900-01	.2860-01	.9130	.8481-03	.1279-02	.1610	1.304	545.4
213	90.000	.27000	816.00	.1560-01	.1260-01	.1890-01	.9130	.5628-03	.8457-03	.1080	.7660	544.1
213	90.000	.29000	817.00	.1058	.8360-01	.1315	.9130	.3742-02	.5883-02	.6580	4.061	559.6
213	90.000	.30000	818.00	.2292	.1723	.3034	.9130	.7709-02	.1357-01	1.141	6.836	587.3
213	90.000	.31000	819.00	.2667	.1990	.3563	.9130	.8904-02	.1594-01	1.290	7.653	590.4
213	90.000	.32000	820.00	.2651	.1993	.3510	.9130	.8915-02	.1570-01	1.319	7.816	587.4
213	90.000	.32500	821.00	.2676	.2005	.3557	.9130	.8970-02	.1592-01	1.315	7.764	588.7
213	90.000	.33000	822.00	.2724	.2038	.3627	.9130	.9117-02	.1623-01	1.331	7.877	589.4
213	90.000	.34000	824.00	.3018	.2260	.4014	.9130	.1011-01	.1796-01	1.480	8.739	589.0
213	90.000	.34500	825.00	.3451	.2565	.4636	.9130	.1147-01	.2074-01	1.643	9.710	592.2
213	90.000	.35000	826.00	.4376	.3054	.6438	.9130	.1367-01	.2881-01	1.663	9.728	613.6
213	90.000	.36000	828.00	.3379	.2352	.4992	.9130	.1053-01	.2234-01	1.273	7.424	614.4
213	90.000	.36500	829.00	.2569	.1931	.3402	.9130	.8639-02	.1522-01	1.278	7.570	587.4
213	90.000	.37000	830.00	.1801	.1400	.2286	.9130	.6265-02	.1023-01	1.035	6.198	570.2
213	90.000	.37500	831.00	.1370	.1076	.1717	.9130	.4815-02	.7683-02	.8250	4.988	563.9
213	90.000	.38000	832.00	.8770-01	.6970-01	.1083	.9130	.3120-02	.4844-02	.5610	3.402	555.7
213	90.000	.39000	833.00	.5160-01	.4140-01	.6300-01	.9130	.1851-02	.2820-02	.3450	2.122	549.1
213	90.000	.40000	834.00	.4980-01	.3990-01	.6100-01	.9130	.1785-02	.2730-02	.3300	2.036	550.5
213	90.000	.50000	835.00	.1950-01	.1550-01	.2400-01	.9130	.6944-03	.1075-02	.1250	.7900	554.7

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F35)

IH41(AEDC V41A-A4A) O T S (CONFIG 4) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
213	90.000	.60000	836.00	.2780-01	.2200-01	.3450-01	.9130	.9832-03	.1543-02	.1730	1.148	559.0
213	90.000	.70000	837.00	.3920-01	.3080-01	.4910-01	.9130	.1377-02	.2198-02	.2360	1.648	564.0
213	90.000	.80000	838.00	.5130-01	.4040-01	.6400-01	.9130	.1806-02	.2864-02	.3130	1.930	562.1
213	90.000	.90000	839.00	.3210-01	.2510-01	.4040-01	.9130	.1124-02	.1808-02	.1900	1.204	566.2
213	112.50	.23000	840.00	.2930-01	.2360-01	.3560-01	.9133	.1057-02	.1595-02	.2000	1.611	546.3
213	112.50	.25000	841.00	.1470-01	.1190-01	.1780-01	.9130	.5309-03	.7970-03	.1020	.7900	543.7
213	112.50	.30000	843.00	.6980-01	.5590-01	.8550-01	.9130	.2503-02	.3826-02	.4630	2.750	550.3
213	112.50	.33000	844.00	.1194	.9450-01	.1482	.9130	.4228-02	.6631-02	.7470	4.474	558.8
213	112.50	.35000	845.00	.1716	.1339	.2168	.9130	.5991-02	.9700-02	1.002	6.079	568.0
213	112.50	.37000	846.00	.1426	.1124	.1781	.9130	.5029-02	.7969-02	.8720	5.334	561.9
213	112.50	.40000	847.00	.5870-01	.4720-01	.7170-01	.9130	.2113-02	.3207-02	.3960	2.468	547.8
213	112.50	.45000	848.00	.2980-01	.2400-01	.3630-01	.9130	.1075-02	.1624-02	.2040	1.280	546.0
213	112.50	.50000	849.00	.2780-01	.2230-01	.3400-01	.9130	.9978-03	.1520-02	.1860	1.193	549.2
213	112.50	.55000	850.00	.1410-01	.1130-01	.1730-01	.9130	.5057-03	.7726-03	.9400-01	.6240	550.2
213	112.50	.60000	851.00	.1990-01	.1590-01	.2440-01	.9130	.7124-03	.1092-02	.1310	.8770	551.2
213	112.50	.65000	852.00	.3480-01	.2780-01	.4290-01	.9130	.1242-02	.1918-02	.2250	1.527	553.9
213	112.50	.70000	853.00	.4360-01	.3450-01	.5410-01	.9130	.1544-02	.2422-02	.2720	1.901	558.9
213	112.50	.75000	854.00	.3390-01	.2680-01	.4210-01	.9130	.1201-02	.1886-02	.2110	1.362	559.3
213	112.50	.80000	855.00	.5270-01	.4180-01	.6530-01	.9130	.1870-02	.2922-02	.3320	2.149	557.7
213	112.50	.90000	856.00	.3290-01	.2570-01	.4150-01	.9130	.1152-02	.1858-02	.1940	1.245	567.0
213	125.40	.84000	857.00	.5530-01	.4360-01	.6890-01	.9130	.1951-02	.3081-02	.3410	2.090	560.8
213	125.40	.85000	858.00	.5110-01	.4040-01	.6370-01	.9130	.1806-02	.2850-02	.3150	1.945	560.8
213	125.40	.86000	859.00	.4440-01	.3510-01	.5520-01	.9130	.1571-02	.2470-02	.2760	1.721	559.5
213	125.40	.87000	860.00	.4530-01	.3580-01	.5640-01	.9130	.1604-02	.2522-02	.2820	1.761	559.5
213	125.40	.88000	861.00	.4860-01	.3830-01	.6070-01	.9130	.1715-02	.2716-02	.2970	1.856	561.8
213	125.40	.89000	862.00	.5830-01	.4580-01	.7300-01	.9130	.2049-02	.3265-02	.3520	2.206	563.5
213	125.40	.90000	863.00	.5510-01	.4320-01	.6920-01	.9130	.1935-02	.3098-02	.3300	2.076	565.0
213	125.40	.91000	864.00	.5470-01	.4300-01	.6850-01	.9130	.1924-02	.3065-02	.3300	2.383	563.5
213	125.40	.92600	865.00	.1213	.9350-01	.1554	.9130	.4185-02	.6954-02	.6720	4.805	574.7
213	129.30	.80000	866.00	.3870-01	.3070-01	.4790-01	.9130	.1375-02	.2145-02	.2450	1.532	557.1
213	129.30	.81000	867.00	.3520-01	.2800-01	.4360-01	.9130	.1252-02	.1950-02	.2210	1.392	556.6
213	129.30	.82000	868.00	.3420-01	.2720-01	.4230-01	.9130	.1217-02	.1893-02	.2180	1.355	556.3
213	129.30	.83000	869.00	.4390-01	.3470-01	.5470-01	.9130	.1551-02	.2446-02	.2710	1.689	560.5
213	135.00	.40000-01	870.00	.4550	.3223	.4349	.9556	.1442-01	.1946-01	1.818	11.33	609.3
213	135.00	.50000-01	871.00	.4400	.3165	.4331	.9521	.1416-01	.1938-01	1.855	11.53	604.3
213	135.00	.60000-01	872.00	.3542	.2606	.3577	.9486	.1166-01	.1600-01	1.622	10.51	596.2
213	135.00	.70000-01	873.00	.3288	.2437	.3398	.9453	.1090-01	.1520-01	1.550	10.30	593.2
213	135.00	.10000+00	875.00	.2252	.1736	.2467	.9363	.7769-02	.1104-01	1.229	7.943	577.2
213	135.00	.15000	876.00	.1216	.9570-01	.1415	.9240	.4284-02	.6333-02	.7400	5.371	562.7
213	135.00	.20000	877.00	.5760-01	.4620-01	.6940-01	.9158	.2056-02	.3104-02	.3820	2.573	550.2
213	135.00	.35000	878.00	.5390-01	.4330-01	.6590-01	.9130	.1937-02	.2949-02	.3610	2.243	548.9
213	135.00	.40000	879.00	.5050-01	.4040-01	.6180-01	.9130	.1809-02	.2766-02	.3340	2.114	550.6
213	135.00	.50000	880.00	.6000-01	.4780-01	.7400-01	.9130	.2138-02	.3309-02	.3860	2.642	554.6

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F35)

IH41(AEDC V41A-A4A) O T S (CONFIG 4) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
213	135.00	.55000	881.00	.6730-01	.5350-01	.8330-01	.9130	.2393-02	.3727-02	.4280	2.834	556.7
213	135.00	.60000	882.00	.6660-01	.5280-01	.8240-01	.9130	.2364-02	.3687-02	.4210	2.816	557.1
213	135.00	.65000	883.00	.6530-01	.5180-01	.8080-01	.9130	.2317-02	.3616-02	.4120	2.799	557.4
213	135.00	.70000	884.00	.5270-01	.4180-01	.6530-01	.9130	.1871-02	.2922-02	.3330	2.354	557.4
213	135.00	.75000	885.00	.5810-01	.4600-01	.7200-01	.9130	.2058-02	.3223-02	.3640	2.281	558.4
213	135.00	.80000	886.00	.3910-01	.3110-01	.4830-01	.9130	.1392-02	.2163-02	.2500	1.562	555.9
213	135.00	.84000	887.00	.7590-01	.5980-01	.9460-01	.9130	.2678-02	.4234-02	.0000	.0000	244.7
210	135.00	.85000	888.00	.8070-01	.6340-01	.1013	.9130	.2837-02	.4536-02	.4870	3.057	567.8
210	135.00	.87000	890.00	.5050-01	.3980-01	.6300-01	.9130	.1784-02	.2819-02	.3130	1.969	564.4
210	135.00	.88000	891.00	.5820-01	.4580-01	.7280-01	.9130	.2053-02	.3262-02	.3560	2.256	566.0
210	135.00	.89000	892.00	.6100-01	.4790-01	.7660-01	.9130	.2144-02	.3432-02	.3680	2.367	568.1
210	135.00	.91000	894.00	.2540-01	.1990-01	.3200-01	.9130	.8917-03	.1433-02	.1520	1.096	569.2
210	135.00	.92600	895.00	.5950-01	.4570-01	.7660-01	.9130	.2046-02	.3432-02	.3260	2.330	580.3
210	135.00	.95000	896.00	.5670-01	.4480-01	.7060-01	.9130	.2007-02	.3163-02	.3530	2.530	563.5
210	142.30	.42000	897.00	.9760-01	.7730-01	.1212	.9130	.3462-02	.5429-02	.6150	3.924	562.0
210	142.30	.43500	898.00	.1294	.1025	.1605	.9130	.4590-02	.7188-02	.8170	5.067	561.6
210	142.30	.45000	899.00	.1183	.9400-01	.1462	.9130	.4208-02	.6549-02	.7570	4.923	559.6
210	142.30	.50000	900.00	.1287	.1021	.1595	.9130	.4570-02	.7142-02	.8170	5.401	560.9
210	142.30	.60000	901.00	.9420-01	.7520-01	.1158	.9130	.3367-02	.5186-02	.6180	4.084	556.1
210	142.30	.70000	902.00	.8460-01	.6690-01	.1052	.9130	.2998-02	.4710-02	.5310	3.592	562.6
210	142.30	.80000	903.00	.6500-01	.5160-01	.8040-01	.9130	.2310-02	.3600-02	.4140	2.617	560.1
210	142.30	.87000	904.00	.5970-01	.4690-01	.7500-01	.9130	.2099-02	.3357-02	.3600	2.254	567.9
210	154.98	.42000	905.00	.8520-01	.6730-01	.1060	.9130	.3013-02	.4746-02	.5310	3.396	563.3
210	154.98	.43500	906.00	.7800-01	.6170-01	.9700-01	.9130	.2763-02	.4346-02	.4880	3.139	563.0
210	154.98	.45000	907.00	.7880-01	.6230-01	.9800-01	.9130	.2790-02	.4387-02	.4930	3.192	562.8
210	154.98	.50000	908.00	.1092	.8620-01	.1361	.9130	.3859-02	.6096-02	.0000	.0000	378.5
210	154.98	.93500	913.00	.1434	.1055	.1952	.9130	.4725-02	.8739-02	.6620	4.688	599.5
210	154.98	.94500	914.00	.8380-01	.6340-01	.1099	.9130	.2838-02	.4923-02	.4310	3.042	587.7
210	157.50	.70000-01	918.00	.2948	.2201	.3044	.9453	.9857-02	.1353-01	1.439	9.777	593.6
210	157.50	.80000-01	919.00	.2782	.2096	.2932	.9422	.9385-02	.1313-01	1.406	9.394	589.7
210	157.50	.10000+00	920.00	.2161	.1662	.2356	.9363	.7442-02	.1055-01	1.191	7.827	579.6
210	157.50	.20000	922.00	.5650-01	.4520-01	.6800-01	.9158	.2020-02	.3044-02	.3770	2.506	553.3
210	157.50	.42000	923.00	.9810-01	.7760-01	.1218	.9130	.3476-02	.5453-02	.6170	3.995	562.1
210	157.50	.43500	924.00	.1208	.9510-01	.1509	.9130	.4260-02	.6758-02	.7410	4.806	565.5
210	157.50	.45000	925.00	.1161	.9090-01	.1460	.9130	.4071-02	.6538-02	.6940	4.531	569.1
210	157.50	.85000	926.00	.3390-01	.2670-01	.4220-01	.9130	.1197-02	.1890-02	.2100	1.345	564.2
210	157.50	.86000	927.00	.2800-01	.2210-01	.3490-01	.9130	.9908-03	.1564-02	.1740	1.118	564.0
210	157.50	.87000	928.00	.4290-01	.3380-01	.5370-01	.9130	.1512-02	.2407-02	.2610	1.684	566.6
210	157.50	.88000	929.00	.9310-01	.7260-01	.1175	.9130	.3253-02	.5263-02	.5480	3.541	571.1
210	157.50	.89000	930.00	.9010-01	.6990-01	.1147	.9130	.3128-02	.5137-02	.5150	3.340	575.1
210	157.50	.90000	931.00	.8820-01	.6810-01	.1130	.9130	.3048-02	.5060-02	.4930	3.276	577.7
210	157.50	.91000	932.00	.4510-01	.3460-01	.5810-01	.9130	.1548-02	.2603-02	.2460	1.768	580.8
210	157.50	.92600	933.00	.5470-01	.4070-01	.7340-01	.9130	.1824-02	.3289-02	.2640	1.877	595.1

DATE 03 JUN 76

AEDC V41A-A4A (1H-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F35)

1H41(AEDC V41A-A4A) O T S (CONFIG 4) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
210	163.12	.41500	934.00	.8120-01	.6430-01	.1007	.9130	.2880-02	.4510-02	.5130	3.303	561.5
210	163.12	.42000	935.00	.8690-01	.6850-01	.1085	.9130	.3068-02	.4857-02	.5460	3.475	564.9
210	163.12	.43000	937.00	.1415	.1102	.1791	.9130	.4935-02	.8019-02	.8260	5.349	572.3
210	163.12	.44000	938.00	.2117	.1636	.2706	.9130	.7326-02	.1212-01	1.192	7.686	576.8
210	163.12	.44500	939.00	.1909	.1479	.2432	.9130	.6623-02	.1089-01	1.088	7.122	575.3
210	163.12	.45000	940.00	.1741	.1350	.2215	.9130	.6044-02	.9920-02	.9950	6.519	574.1
210	163.12	.50000	941.00	.9070-01	.7090-01	.1144	.9130	.3173-02	.5123-02	.5360	3.595	570.6
210	163.12	.60000	942.00	.9230-01	.7270-01	.1153	.9130	.3254-02	.5163-02	.5670	3.619	565.5
210	163.12	.70000	943.00	.6720-01	.5320-01	.8350-01	.9130	.2382-02	.3738-02	.4220	2.878	562.2
210	163.12	.80000	944.00	.5770-01	.4570-01	.7180-01	.9130	.2044-02	.3216-02	.3610	2.337	563.0
210	168.00	.35000	945.00	.3580-01	.2870-01	.4370-01	.9130	.1286-02	.1958-02	.2410	1.522	552.3
210	168.00	.36000	946.00	.3340-01	.2680-01	.4080-01	.9130	.1200-02	.1826-02	.2250	1.426	552.1
210	168.00	.37000	947.00	.6430-01	.5150-01	.7900-01	.9130	.2304-02	.3536-02	.4250	2.701	554.9
210	168.00	.37500	948.00	.8680-01	.6920-01	.1069	.9130	.3099-02	.4789-02	.5650	3.582	557.3
210	168.00	.38500	950.00	.6260-01	.5000-01	.7680-01	.9130	.2240-02	.3440-02	.4130	2.653	555.1
210	168.00	.39000	951.00	.7380-01	.5880-01	.9090-01	.9130	.2633-02	.4072-02	.4800	3.094	557.5
210	168.00	.39500	952.00	.6260-01	.4980-01	.7730-01	.9130	.2230-02	.3462-02	.4030	2.562	558.8
210	168.00	.40000	953.00	.6100-01	.4840-01	.7550-01	.9130	.2168-02	.3382-02	.3890	2.513	560.2
210	168.00	.40500	954.00	.6200-01	.4910-01	.7700-01	.9130	.2197-02	.3449-02	.3900	2.522	562.3
210	168.00	.41000	955.00	.7050-01	.5560-01	.8800-01	.9130	.2489-02	.3939-02	.4350	2.812	564.8
210	168.00	.41500	956.00	.8040-01	.6310-01	.1010	.9130	.2824-02	.4523-02	.4840	3.133	568.2
210	168.00	.42000	957.00	.1017	.7960-01	.1280	.9130	.3564-02	.5733-02	.6060	3.934	569.5
210	168.00	.42500	958.00	.1073	.8430-01	.1346	.9130	.3773-02	.6027-02	.6490	4.218	567.5
210	168.00	.43000	959.00	.1626	.1244	.2103	.9130	.5571-02	.9419-02	.8770	5.640	582.1
210	168.00	.44000	960.00	.2374	.1830	.3045	.9130	.8195-02	.1364-01	1.321	8.536	578.3
210	168.00	.44500	961.00	.2080	.1615	.2643	.9130	.7232-02	.1184-01	1.196	7.742	574.2
210	168.00	.45000	962.00	.1864	.1450	.2363	.9130	.6495-02	.1058-01	1.082	7.052	572.9
210	168.00	.45500	963.00	.1812	.1403	.2311	.9130	.6282-02	.1035-01	1.028	6.691	575.9
210	168.00	.46000	964.00	.1914	.1475	.2453	.9130	.6607-02	.1099-01	1.067	6.973	578.2
210	168.00	.47000	965.00	.1556	.1216	.1990	.9130	.5445-02	.8914-02	.9000	5.915	574.2
210	168.00	.48000	966.00	.1313	.1024	.1660	.9130	.4586-02	.7436-02	.7700	5.109	571.7
210	168.00	.49000	967.00	.1024	.8060-01	.1281	.9130	.3611-02	.5734-02	.6270	4.176	565.8
210	168.00	.85000	968.00	.4370-01	.3440-01	.5460-01	.9130	.1539-02	.2444-02	.2670	1.718	565.8
210	168.00	.86000	969.00	.4510-01	.3540-01	.5650-01	.9130	.1583-02	.2531-02	.2720	1.752	567.7
210	168.00	.87000	970.00	.5350-01	.4200-01	.6750-01	.9130	.1879-02	.3025-02	.3190	2.059	569.7
210	168.00	.88000	971.00	.8150-01	.6330-01	.1036	.9130	.2836-02	.4640-02	.4690	3.029	574.1
210	168.00	.89000	972.00	.9420-01	.7260-01	.1208	.9130	.3249-02	.5410-02	.5230	3.421	578.5
210	168.00	.90000	973.00	.9120-01	.7010-01	.1175	.9130	.3139-02	.5263-02	.5000	3.344	580.3
210	168.00	.91000	974.00	.4480-01	.3420-01	.5930-01	.9130	.1530-02	.2612-02	.2380	1.701	584.3
210	168.00	.92600	975.00	.9550-01	.6960-01	.1319	.9130	.3118-02	.5905-02	.4250	2.996	603.2
210	168.00	.95000	976.00	.6550-01	.5250-01	.8300-01	.9130	.2350-02	.3719-02	.4110	2.930	564.8
210	180.00	.20000-01	982.00	.1512	.1170	.1422	.9508	.5239-02	.6370-02	.8560	5.862	576.3
210	180.00	.25000-01	983.00	.3050	.2313	.2888	.9588	.1036-01	.1293-01	1.596	10.74	586.5

IH41(AEDC V41A-A4A) O T S (CONFIG 4) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
210	180.00	.30000-01	984.00	.5953	.4271	.5637	.9571	.1913-01	.2524-01	2.504	16.67	608.7
211	180.00	.40000-01	600.00	.5264	.3872	.5060	.9556	.1735-01	.2268-01	2.427	15.20	600.1
211	180.00	.50000-01	601.00	.4336	.3191	.4273	.9521	.1430-01	.1915-01	2.003	12.58	599.9
211	180.00	.60000-01	602.00	.3652	.2719	.3686	.9486	.1219-01	.1652-01	1.766	11.48	595.1
211	180.00	.70000-01	603.00	.3269	.2448	.3374	.9453	.1097-01	.1512-01	1.616	10.77	592.7
211	180.00	.80000-01	604.00	.2770	.2088	.2919	.9422	.9360-02	.1308-01	1.408	8.964	589.6
211	180.00	.10000+00	605.00	.2144	.1655	.2334	.9363	.7417-02	.1046-01	1.202	8.495	577.9
211	180.00	.15000	606.00	.1134	.8920-01	.1319	.9240	.3999-02	.5912-02	.6950	5.003	566.2
211	180.00	.20000	607.00	.4780-01	.3820-01	.5760-01	.9158	.1714-02	.2582-02	.3180	2.065	554.6
211	180.00	.21000	608.00	.4670-01	.3750-01	.5650-01	.9147	.1680-02	.2534-02	.3150	2.167	552.7
211	180.00	.22000	609.00	.3370-01	.2710-01	.4100-01	.9139	.1213-02	.1840-02	.2270	1.683	552.9
211	180.00	.30000	610.00	.2480-01	.1990-01	.3050-01	.9130	.8911-03	.1365-02	.1650	1.127	554.6
211	180.00	.35000	611.00	.3200-01	.2560-01	.3920-01	.9130	.1149-02	.1759-02	.2130	1.417	554.2
211	180.00	.36000	612.00	.3170-01	.2540-01	.3890-01	.9130	.1137-02	.1745-02	.2100	1.407	555.1
211	180.00	.37500	614.00	.8580-01	.6810-01	.1063	.9130	.3051-02	.4763-02	.5470	3.648	560.8
211	180.00	.38000	615.00	.7960-01	.6310-01	.9860-01	.9130	.2828-02	.4418-02	.5060	3.375	561.1
211	180.00	.38500	616.00	.5920-01	.4690-01	.7350-01	.9130	.2101-02	.3295-02	.3730	2.490	562.2
211	180.00	.39000	617.00	.5510-01	.4350-01	.6860-01	.9130	.1951-02	.3076-02	.3430	2.281	564.0
211	180.00	.39500	618.00	.4840-01	.3800-01	.6060-01	.9130	.1704-02	.2714-02	.2950	1.967	567.0
211	180.00	.40000	619.00	.5260-01	.4120-01	.6630-01	.9130	.1846-02	.2972-02	.3140	2.077	570.0
211	180.00	.40500	620.00	.6320-01	.4920-01	.8010-01	.9130	.2207-02	.3589-02	.3690	2.448	572.7
211	180.00	.41000	621.00	.8500-01	.6570-01	.1087	.9130	.2946-02	.4871-02	.4800	3.177	577.0
211	180.00	.41500	622.00	.1066	.8200-01	.1370	.9130	.3676-02	.6142-02	.5900	3.886	579.6
211	180.00	.42500	624.00	.1585	.1202	.2074	.9130	.5389-02	.9297-02	.8250	5.422	586.8
211	180.00	.43000	625.00	.1527	.1370	.2425	.9130	.6140-02	.1087-01	.9090	5.971	592.0
211	180.00	.44000	626.00	.2192	.1617	.2974	.9130	.7247-02	.1333-01	1.023	6.697	598.9
211	180.00	.44500	627.00	.2742	.2034	.3695	.9130	.9116-02	.1655-01	1.306	8.642	596 7
211	180.00	.45000	628.00	.2953	.2224	.3898	.9130	.9967-02	.1747-01	1.494	9.916	590.1
211	180.00	.45500	629.00	.2526	.1942	.3247	.9130	.8706-02	.1455-01	1.395	9.450	579.7
211	180.00	.46000	630.00	.2079	.1619	.2634	.9130	.7255-02	.1181-01	1.212	8.040	572.9
211	180.00	.47000	631.00	.1166	.9160-01	.1461	.9130	.4105-02	.6548-02	.7080	4.713	567.4
211	180.00	.48000	632.00	.4080-01	.3190-01	.5140-01	.9130	.1429-02	.2305-02	.2420	1.616	570.6
211	180.00	.49000	633.00	.1830-01	.1420-01	.2330-01	.9130	.6379-03	.1046-02	.1050	.7090	574.8
211	180.00	.50000	634.00	.8350-01	.6460-01	.1065	.9130	.2896-02	.4772-02	.4740	3.269	576.2
211	180.00	.55000	635.00	.1005	.7800-01	.1280	.9130	.3494-02	.5735-02	.5760	3.770	575.2
211	180.00	.60000	636.00	.1167	.9120-01	.1470	.9130	.4088-02	.6589-02	.6930	4.417	570.4
211	180.00	.65000	637.00	.1080	.8470-01	.1356	.9130	.3794-02	.6077-02	.6500	4.158	568.6
211	180.00	.70000	638.00	.8470-01	.6650-01	.1060	.9130	.2982-02	.4751-02	.5160	3.493	567.1
211	180.00	.75000	639.00	.5010-01	.3960-01	.6240-01	.9130	.1773-02	.2795-02	.3120	1.996	563.9
211	180.00	.80000	640.00	.6220-01	.4910-01	.7740-01	.9130	.2202-02	.3467-02	.3890	2.414	563.5
211	180.00	.85000	641.00	.5760-01	.4510-01	.7260-01	.9130	.2020-02	.3254-02	.3430	2.140	570.3
211	180.00	.86000	642.00	.6230-01	.4850-01	.7870-01	.9130	.2175-02	.3459-02	.3650	2.309	572.2
211	180.00	.87000	643.00	.9010-01	.6970-01	.1149	.9130	.3126-02	.5150-02	.5120	3.253	576.1

IH41(AEDC V41A-A4A) O T S (CONFIG 4) TANK DATA (RV7F35)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
211	180.00	.88000	644.00	2340-01	.6350-01	.1055	.9130	.2847-02	.4729-02	.4610	2.949	578.2
211	180.00	.89000	645.00	.560-01	.6560-01	.1106	.9130	.2940-02	.4958-02	.4650	3.008	581.8
211	180.00	.90000	646.00	5110-01	.3920-01	.6610-01	.9130	.1756-02	.2962-02	.2770	1.833	581.9
211	180.00	.95000	649.00	.4210-01	.3330-01	.5230-01	.9130	.1491-02	.2343-02	.2640	1.889	563.1
211	191.25	.35000	650.00	.3070-01	.2460-01	.3770-01	.9130	.1101-02	.1692-02	.2030	1.360	555.4
211	191.25	.36000	651.00	.4250-01	.3390-01	.5220-01	.9130	.1520-02	.2339-02	.2800	1.876	556.0
211	191.25	.37000	652.00	.7560-01	.6020-01	.9330-01	.9130	.2700-02	.4179-02	.4910	3.281	558.1
211	191.25	.37500	653.00	.7450-01	.5920-01	.9210-01	.9130	.2653-02	.4128-02	.4780	3.201	559.8
211	191.25	.38000	654.00	.7220-01	.5740-01	.8930-01	.9130	.2571-02	.4003-02	.4630	3.100	559.9
211	191.25	.38500	655.00	.7800-01	.6180-01	.9670-01	.9130	.2770-02	.4333-02	.4940	3.307	561.5
211	191.25	.39000	656.00	.7860-01	.6210-01	.9780-01	.9130	.2783-02	.4382-02	.4910	3.281	563.5
211	191.25	.39500	657.00	.7310-01	.5760-01	.9120-01	.9130	.2583-02	.4086-02	.4620	3.021	564.9
211	191.25	.40000	658.00	.7300-01	.5740-01	.9150-01	.9130	.2572-02	.4099-02	.4440	2.973	567.2
211	191.25	.40500	659.00	.6770-01	.5300-01	.8510-01	.9130	.2376-02	.3815-02	.4060	2.712	569.3
211	191.25	.41000	660.00	.8340-01	.6520-01	.1050	.9130	.2923-02	.4704-02	.4970	3.310	570.0
211	191.25	.41500	661.00	.1024	.8000-01	.1292	.9130	.3583-02	.5792-02	.6050	4.017	571.1
211	191.25	.42000	662.00	.1297	.1000+00	.1661	.9130	.4483-02	.7443-02	.7260	4.815	571.1
211	191.25	.42500	663.00	.1555	.1192	.2007	.9130	.5344-02	.8993-02	.8480	5.634	581.3
211	191.25	.43000	664.00	.1911	.1439	.2523	.9130	.6451-02	.1131-01	.9670	6.457	590.1
211	191.25	.44000	665.00	.2580	.1948	.3395	.9130	.8732-02	.1522-01	1.319	8.761	588.9
211	191.25	.45000	666.00	.1967	1512	.2531	.9130	.6775-02	.1134-01	1.083	7.226	580.1
211	191.25	.45500	667.00	.1720	.1320	.2217	.9130	.5517-02	.9934-02	.9420	6.282	580.7
211	191.25	.46000	668.00	.1516	.1161	.1959	.9130	.5204-02	.8762-02	.8220	5.498	581.9
211	191.25	.47000	669.00	.1401	.1078	.1800	.9130	.4831-02	.8068-02	.7750	5.205	579.5
211	191.25	.48000	670.00	.1151	.8900-01	.1471	.9130	.3988-02	.6592-02	.6500	4.368	577.0
211	191.25	.49000	671.00	.1185	.9160-01	.1515	.9130	.4104-02	.6790-02	.6680	4.476	577.2
211	191.25	.50000	672.00	.1402	.1075	.1809	.9130	.4819-02	.8109-02	.7650	5.226	581.3
211	191.25	.60000	673.00	.1020	.8020-01	.1277	.9130	.3595-02	.5724-02	.6220	3.949	566.9
211	191.25	.70000	674.00	.9680-01	.7500-01	.1233	.9130	.3362-02	.5525-02	.5530	3.708	575.5
211	191.25	.85000	676.00	.6500-01	.5090-01	.8180-01	.9130	.2279-02	.3666-02	.3880	2.423	569.8
211	191.25	.86000	677.00	.5970-01	.4660-01	.7560-01	.9130	.2086-02	.3388-02	.3500	2.207	572.4
211	191.25	.87000	678.00	.7670-01	.5940-01	.9780-01	.9130	.2660-02	.4383-02	.4360	2.768	576.2
211	191.25	.88000	679.00	.6400-01	.4930-01	.8210-01	.9130	.2210-02	.3679-02	.3560	2.288	578.7
211	191.25	.89000	680.00	.7310-01	.5600-01	.9450-01	.9130	.2509-02	.4234-02	.3960	2.578	582.0
211	191.25	.90000	681.00	.6270-01	.4770-01	.8160-01	.9130	.2138-02	.3656-02	.3310	2.192	585.0
211	191.25	.91000	682.00	.2300-01	.1750-01	.3010-01	.9130	.7829-03	.1351-02	.1200	.8570	586.8
211	191.25	.92500	683.00	.2108	.1521	.2953	.9130	.6815-02	.1324-01	.9040	6.423	607.2
211	191.25	.95000	684.00	.3960-01	.3130-01	.4930-01	.9130	.1405-02	.2209-02	.2480	1.779	563.1
211	197.00	.33000	685.00	.2540-01	.2030-01	.3100-01	.9130	.9115-03	.1390-02	.1700	1.141	553.1
211	197.00	.34000	686.00	.2670-01	.2140-01	.3270-01	.9130	.9598-03	.1468-02	.1790	1.196	553.9
211	197.00	.35000	687.00	.2350-01	.1880-01	.2890-01	.9130	.8444-03	.1293-02	.1570	1.048	554.5
211	197.00	.36000	688.00	.5110-01	.4080-01	.6290-01	.9130	.1827-02	.2800-02	.3340	2.235	557.0
211	197.00	.37000	689.00	.7710-01	.6130-01	.9520-01	.9130	.2748-02	.4268-02	.4970	3.319	559.2

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F35)

IH41(AEDC V41A-A4A) O T S (CONFIG 4) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
211	197.00	.37500	690.00	.9800-01	.7750-01	.1219	.9130	.3475-02	.5463-02	.6150	4.111	563.0
211	197.00	.50000	691.00	.1818	.1349	.2448	.9130	.6047-02	.1097-01	.8670	5.685	596.6
211	197.00	.60000	692.00	.6440-01	.5050-01	.8090-01	.9130	.2261-02	.3624-02	.3870	2.469	568.8
211	197.00	.70000	693.00	.8650-01	.6570-01	.1131	.9130	.2945-02	.5068-02	.4530	3.011	586.2
211	197.00	.80000	694.00	.4730-01	.3740-01	.5890-01	.9130	.1675-02	.2642-02	.2940	1.834	554.1
211	197.00	.87000	695.00	.7700-01	.5970-01	.9820-01	.9130	.2674-02	.4401-02	.4390	2.755	575.9
212	197.00	.92600	696.00	.2031	.1469	.2834	.9130	.6583-02	.1270-01	.8800	6.250	606.3
212	197.00	.15000-01	697.00	.1539	.1195	.1954	.9130	.5358-02	.8760-02	.0000	0000	538.2
212	209.80	.30000-01	698.00	.5247	.3813	.4981	.9571	.1706-01	.2229-01	2.309	15.26	604.7
212	209.80	.50000-01	699.00	.3997	.2913	.3937	.9521	.1304-01	.1762-01	1.779	11.00	603.6
212	209.80	.70000-01	700.00	.3856	.2795	.3998	.9453	.1251-01	.1789-01	1.681	11.04	605.6
212	209.80	.10000+00	701.00	.2543	.1903	.2802	.9363	.8517-02	.1254-01	1.253	7.805	592.9
212	209.80	.20000	703.00	.6060-01	.4880-01	.7260-01	.9158	.2184-02	.3250-02	.4150	2.759	550.0
212	209.80	.30000	704.00	.4150-01	.3350-01	.5060-01	.9130	.1498-02	.2262-02	.2860	2.023	549.3
212	209.80	.37500	706.00	.8890-01	.7100-01	.1091	.9130	.3179-02	.4883-02	.5870	4.010	555.6
212	209.80	.50000	707.00	.1176	.9140-01	.1493	.9130	.4092-02	.6682-02	.6800	4.589	574.0
212	209.80	.60000	708.00	.9220-01	.7330-01	.1141	.9130	.3278-02	.5105-02	.5900	3.735	560.1
212	209.80	.70000	709.00	.6320-01	.4970-01	.7910-01	.9130	.2222-02	.3539-02	.3840	2.425	567.1
212	209.80	.80000	710.00	.3470-01	.2760-01	.4280-01	.9130	.1237-02	.1916-02	.2250	1.392	558.4
212	209.80	.87000	711.00	.5100-01	.4010-01	.6380-01	.9130	.1794-02	.2855-02	.3110	1.945	566.8
212	209.80	.92600	712.00	.1238	.9290-01	.1642	.9130	.4156-02	.7347-02	.6160	4.379	591.8
212	217.70	.15000-01	713.00	.2271	.1757	.2899	.9130	.7663-02	.1297-01	1.285	8.721	576.6
212	217.70	.30000-01	714.00	.4745	.3452	.4505	.9571	.1545-01	.2016-01	2.098	13.87	604.2
212	217.70	.50000-01	715.00	.4219	.3069	.4155	.9521	.1373-01	.1859-01	1.863	11.81	604.4
212	217.70	.70000-01	716.00	.3155	.2231	.3282	.9453	.9383-02	.1468-01	1.262	8.328	613.7
212	217.70	.10000+00	717.00	.1588	.1192	.1748	.9363	.5332-02	.7821-02	.7910	5.014	591.8
212	217.70	.15000	718.00	.9430-01	.7340-01	.1100	.9240	.3286-02	.4950-02	.5500	3.970	572.8
212	217.70	.20000	719.00	.6700-01	.5400-01	.8030-01	.9158	.2415-02	.3594-02	.4590	3.088	550.1
212	217.70	.30000	720.00	.5240-01	.4220-01	.6390-01	.9130	.1888-02	.2857-02	.3580	2.559	550.2
212	217.70	.35000	721.00	.5820-01	.4700-01	.7070-01	.9130	.2103-02	.3165-02	.4040	2.796	548.1
212	217.70	.37500	722.00	.4890-01	.3940-01	.5950-01	.9130	.1763-02	.2655-02	.3350	2.320	549.8
212	217.70	.50000	723.00	.1385	.1099	.1715	.9130	.4919-02	.7674-02	.8820	6.053	560.7
212	217.70	.70000	725.00	.5380-01	.4270-01	.6660-01	.9130	.1911-02	.2982-02	.3430	2.164	560.7
212	217.70	.80000	726.00	.3460-01	.2760-01	.4260-01	.9130	.1233-02	.1906-02	.2250	1.406	557.7
212	217.70	.87000	727.00	.6550-01	.5150-01	.8210-01	.9130	.2305-02	.3672-02	.3990	2.524	567.0
212	217.70	.92600	728.00	.1024	.7810-01	.1332	.9130	.3494-02	.5960-02	.5440	3.881	584.4

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F38)

IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = -5.000 BETA = .0000 GRIT = 6.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
223	3.510	4.778	-5.000	.0000	.0000	56.90	.7350	681.0	196.6	6.338	2412.	.3136-03
224	3.510	4.612	-5.000	.0000	.0000	57.30	.7400	681.0	196.6	6.383	2412.	.3158-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
223	.1583-06	.5531-01	.9299-02
224	.1583-06	.5551-01	.9266-02

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
224	.00000	.30000-02	730.00	.3775	.2682	.3401	.9635	.1489-01	.1888-01	1.751	11.92	563.5
224	.00000	.10300-01	731.00	.1300	.9820-01	.1518	.9278	.5448-02	.8428-02	.7580	5.232	542.0
224	.00000	.15000-01	732.00	.1059	.8090-01	.1227	.9278	.4493-02	.6812-02	.6490	4.439	536.6
224	.00000	.20000-01	733.00	.1125	.8500-01	.1057	.9600	.4716-02	.5864-02	.6560	4.517	541.9
224	.00000	.25000-01	734.00	.1458	.1077	.1379	.9580	.5980-02	.7657-02	.7810	5.302	550.6
224	.00000	.30000-01	735.00	.2045	.1481	.1949	.9564	.8222-02	.1082-01	1.016	6.917	557.5
224	.00000	.40000-01	737.00	.3321	.2398	.3198	.9550	.1331-01	.1775-01	1.633	10.59	558.5
224	.00000	.45000-01	738.00	.3572	.2567	.3481	.9533	.1425-01	.1932-01	1.725	11.34	560.1
224	.00000	.60000-01	739.00	.2946	.2062	.2980	.9487	.1145-01	.1654-01	1.299	8.637	567.7
224	.00000	.70000-01	740.00	.3307	.2290	.3432	.9459	.1271-01	.1905-01	1.407	9.403	570.4
224	.00000	.80000-01	741.00	.3050	.2110	.3244	.9433	.1171-01	.1801-01	1.295	9.300	570.6
224	.00000	.10000+00	742.00	.1869	.1364	.2040	.9387	.7573-02	.1132-01	.9550	6.353	555.0
224	.00000	.12500	743.00	.1350	.9770-01	.1536	.9342	.5423-02	.8525-02	.6680	4.829	558.0
224	.00000	.15000	744.00	.1107	.8130-01	.1284	.9309	.4512-02	.7125-02	.5790	4.012	552.8
224	.00000	.17500	745.00	.7690-01	.5700-01	.9020-01	.9289	.3165-02	.5009-02	.4170	3.126	549.5
224	.00000	.20000	746.00	.5620-01	.4220-01	.6590-01	.9279	.2345-02	.3657-02	.3210	2.298	544.3
224	.00000	.21500	747.00	.4710-01	.3530-01	.5540-01	.9278	.1958-02	.3072-02	.2650	1.841	545.5
224	.00000	.23000	748.00	.4010-01	.2990-01	.4720-01	.9278	.1660-02	.2619-02	.2230	1.646	546.9
224	.00000	.24000	749.00	.3320-01	.2480-01	.3900-01	.9278	.1376-02	.2165-02	.1860	1.402	546.1
224	.00000	.25000	750.00	.1580-01	.1180-01	.1850-01	.9278	.6554-03	.1028-02	.8900-01	.7200	545.4

IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
224	.00000	.30000	751.00	.4190-01	.3130-01	.4930-01	.9278	.1738-02	.2734-02	.2350	1.540	546.2
224	.00000	.40000	753.00	.6460-01	.4830-01	.7590-01	.9278	.2680-02	.4214-02	.3620	2.330	546.0
224	.00000	.50000	754.00	.4210-01	.3080-01	.5040-01	.9278	.1710-02	.2796-02	.2160	1.411	554.5
224	.00000	.60000	755.00	.7580-01	.5530-01	.9070-01	.9278	.3071-02	.5035-02	.3870	2.473	555.0
224	.00000	.70000	756.00	.5280-01	.3820-01	.6350-01	.9278	.2120-02	.3526-02	.2610	1.717	557.8
224	.00000	.80000	757.00	.4890-01	.3570-01	.5850-01	.9278	.1979-02	.3248-02	.2490	1.555	555.2
224	.00000	.90000	758.00	.4440-01	.3220-01	.5330-01	.9278	.1787-02	.2960-02	.2220	1.427	557.0
224	55.000	.22000	759.00	.5280-01	.3940-01	.6220-01	.9278	.2187-02	.3450-02	.2940	2.186	546.8
224	55.000	.25000	760.00	.2280-01	.1700-01	.2680-01	.9278	.9443-03	.1489-02	.1270	.9940	546.7
224	55.000	.27000	761.00	.2370-01	.1760-01	.2800-01	.9278	.9773-03	.1553-02	.1300	.9640	548.5
224	55.000	.30000	762.00	.5590-01	.4160-01	.6590-01	.9278	.2307-02	.3659-02	.3070	1.845	548.0
224	55.000	.32000	763.00	.5230-01	.3920-01	.6150-01	.9278	.2175-02	.3412-02	.2950	1.748	545.4
224	55.000	.34000	764.00	.5970-01	.4450-01	.7040-01	.9278	.2469-02	.3909-02	.3300	1.954	547.6
224	55.000	.36000	765.00	.8020-01	.5920-01	.9520-01	.9278	.3288-02	.5206-02	.4280	2.567	551.0
224	55.000	.38000	766.00	.7940-01	.5860-01	.9430-01	.9278	.3254-02	.5233-02	.4230	2.567	551.1
224	55.000	.40000	767.00	.6510-01	.4830-01	.7690-01	.9278	.2681-02	.4269-02	.3540	2.212	548.9
224	67.500	.23000	768.00	.4960-01	.3690-01	.5850-01	.9278	.2048-02	.3249-02	.2730	2.026	548.1
224	67.500	.25000	769.00	.2790-01	.2080-01	.3280-01	.9278	.1153-02	.1822-02	.1550	1.202	547.1
224	67.500	.27000	770.00	.3400-01	.2530-01	.4010-01	.9278	.1402-02	.2225-02	.1860	1.359	548.1
224	67.500	.29000	771.00	.5080-01	.3740-01	.5990-01	.9278	.2078-02	.3323-02	.2730	1.688	549.8
224	67.500	.30000	772.00	.6340-01	.4700-01	.7500-01	.9278	.2609-02	.4165-02	.3440	2.097	549.5
224	67.500	.31000	773.00	.7630-01	.5640-01	.9060-01	.9278	.3129-02	.5027-02	.4080	2.466	550.8
224	67.500	.32000	774.00	.9420-01	.6880-01	.1126	.9278	.3819-02	.6250-02	.4830	2.891	554.7
224	67.500	.32500	775.00	.1073	.7790-01	.1288	.9278	.4325-02	.7148-02	.5390	3.232	556.6
224	67.500	.33000	776.00	.1173	.8440-01	.1420	.9278	.4682-02	.7880-02	.5670	3.407	559.9
224	67.500	.33500	777.00	.1308	.9370-01	.1588	.9278	.5199-02	.8812-02	.6230	3.742	561.2
224	67.500	.34000	778.00	.1342	.9580-01	.1633	.9278	.5317-02	.9065-02	.6320	3.793	562.2
224	67.500	.34500	779.00	.1351	.9620-01	.1647	.9278	.5340-02	.9141-02	.6310	3.797	562.9
224	67.500	.35000	780.00	.1274	.9130-01	.1545	.9278	.5069-02	.8576-02	.6090	3.679	560.9
224	67.500	.36000	782.00	.1161	.8440-01	.1394	.9278	.4684-02	.7740-02	.5830	3.539	556.5
224	67.500	.36500	783.00	.1108	.8100-01	.1325	.9278	.4495-02	.7353-02	.5690	3.444	554.6
224	67.500	.37000	784.00	.9660-01	.7080-01	.1152	.9278	.3931-02	.6395-02	.5020	3.056	553.5
224	67.500	.37500	785.00	.7870-01	.5800-01	.9350-01	.9278	.3217-02	.5191-02	.4160	2.557	551.8
224	67.500	.38000	786.00	.7360-01	.5440-01	.8730-01	.9278	.3017-02	.4847-02	.3930	2.424	550.8
224	67.500	.39000	787.00	.5210-01	.3870-01	.6150-01	.9278	.2150-02	.3415-02	.2850	1.767	548.4
224	67.500	.40000	788.00	.3520-01	.2640-01	.4140-01	.9278	.1463-02	.2298-02	.1980	1.238	545.8
224	67.500	.50000	789.00	.2010-01	.1480-01	.2390-01	.9278	.8231-03	.1326-02	.1070	.5820	551.5
224	67.500	.60000	790.00	.4360-01	.3190-01	.5210-01	.9278	.1769-02	.2895-02	.2240	1.462	554.7
224	67.500	.70000	791.00	.6240-01	.4400-01	.7670-01	.9278	.2445-02	.4256-02	.2820	1.976	565.6
224	67.500	.80000	792.00	.7120-01	.5090-01	.8650-01	.9278	.2825-02	.4800-02	.3380	2.106	561.6
224	67.500	.90000	793.00	.8980-01	.6210-01	.1120	.9278	.3447-02	.6214-02	.3810	2.425	570.7
224	78.000	.27000	794.00	.3640-01	.2700-01	.4310-01	.9278	.1498-02	.2393-02	.1970	1.401	549.7
224	78.000	.29000	795.00	.7520-01	.5530-01	.8960-01	.9278	.3069-02	.4971-02	.0000	.0000	187.9

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F38)

IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
224	135.00	.84000	887.00	.7590-01	.5930-01	.9460-01	.9130	.2678-02	.4234-02	.0000	.0000	244.7
223	180.00	.40000-01	600.00	.6242	.4162	.5127	.9718	.2302-01	.2836-01	2.352	14.88	578.9
223	180.00	.50000-01	601.00	.5946	.3970	.5041	.9680	.2196-01	.2788-01	2.249	14.27	578.6
223	180.00	.60000-01	602.00	.5446	.3394	.4635	.9645	.1877-01	.2564-01	1.697	11.06	590.7
223	180.00	.70000-01	603.00	.5046	.2964	.4368	.9610	.1639-01	.2416-01	1.353	8.996	598.6
223	180.00	.80000-01	604.00	.5136	.3197	.4693	.9578	.1768-01	.2596-01	1.595	10.15	590.9
223	180.00	.10000+00	605.00	.3271	.2212	.3217	.9517	.1223-01	.1779-01	1.286	9.099	575.9
223	180.00	.15000	606.00	.2084	.1407	.2316	.9396	.7784-02	.1281-01	.8160	5.849	576.2
223	180.00	.20000	607.00	.1329	.9440-01	.1562	.9317	.5220-02	.8641-02	.6130	3.969	563.5
223	180.00	.21000	608.00	.1096	.7840-01	.1295	.9306	.4337-02	.7164-02	.5190	3.562	561.3
223	180.00	.22000	609.00	.9420-01	.6760-01	.1122	.9297	.3737-02	.6203-02	.4500	3.323	560.7
223	180.00	.30000	610.00	.7710-01	.5590-01	.9220-01	.9285	.3091-02	.5098-02	.3830	2.605	557.3
223	180.00	.35000	611.00	.7310-01	.5320-01	.8700-01	.9285	.2945-02	.4813-02	.3700	2.451	555.6
223	180.00	.36000	612.00	.7520-01	.5470-01	.8970-01	.9285	.3025-02	.4961-02	.3780	2.527	556.2
223	180.00	.37500	614.00	.8620-01	.6220-01	.1033	.9285	.3442-02	.5714-02	.4220	2.818	558.5
223	180.00	.38000	615.00	.9750-01	.7000-01	.1174	.9285	.3872-02	.6494-02	.4670	3.119	560.4
223	180.00	.38500	616.00	.1111	.7880-01	.1351	.9285	.4356-02	.7471-02	.5090	3.392	564.2
223	180.00	.39000	617.00	.1310	.9300-01	.1590	.9285	.5143-02	.8795-02	.6040	4.010	563.7
223	180.00	.39500	618.00	.1290	.9130-01	.1570	.9285	.5047-02	.8682-02	.5870	3.925	564.7
223	180.00	.40000	619.00	.1352	.9480-01	.1657	.9285	.5246-02	.9162-02	.5980	3.967	567.1
223	180.00	.40500	620.00	.1528	.1058	.1890	.9285	.5849-02	.1045-01	.6470	4.298	570.5
223	180.00	.41000	621.00	.1881	.1270	.2373	.9285	.7026-02	.1313-01	.7370	4.879	576.2
223	180.00	.41500	622.00	.2308	.1536	.2947	.9285	.8493-02	.1630-01	.8640	5.696	579.3
223	180.00	.42500	624.00	.3181	.2037	.4195	.9285	.1127-01	.2320-01	1.067	7.013	586.3
223	180.00	.43000	625.00	.3520	.2164	.4822	.9285	.1197-01	.2667-01	1.058	6.950	592.7
223	180.00	.44000	626.00	.3809	.2244	.5445	.9285	.1241-01	.3011-01	1.029	6.741	598.2
223	180.00	.44500	627.00	.3186	.1954	.4375	.9285	.1081-01	.2420-01	.9520	6.308	593.0
223	180.00	.45000	628.00	.2421	.1578	.3145	.9285	.8726-02	.1739-01	.8530	5.683	583.3
223	180.00	.45500	629.00	.1835	.1258	.2288	.9285	.6956-02	.1265-01	.7530	5.119	572.8
223	180.00	.46000	630.00	.1436	.1012	.1752	.9285	.5597-02	.9689-02	.6460	4.299	565.7
223	180.00	.47000	631.00	.9960-01	.7170-01	.1196	.9285	.3968-02	.6613-02	.4840	3.230	559.2
223	180.00	.48000	632.00	.7730-01	.5540-01	.9320-01	.9285	.3064-02	.5153-02	.3663	2.473	560.9
223	180.00	.49000	633.00	.1077	.7400-01	.1341	.9285	.4092-02	.7414-02	.4450	2.998	572.3
223	180.00	.50000	634.00	.1537	.1066	.1899	.9285	.5894-02	.1050-01	.6540	4.525	570.0
223	180.00	.55000	635.00	.5510-01	.4000-01	.6570-01	.9285	.2214-02	.3633-02	.2760	1.826	556.3
223	180.00	.60000	636.00	.1603	.1124	.1964	.9285	.6219-02	.1086-01	.7090	4.525	567.1
223	180.00	.65000	637.00	.1699	.1186	.2088	.9285	.6561-02	.1155-01	.7400	4.737	568.2
223	180.00	.70000	638.00	.1067	.7570-01	.1296	.9285	.4187-02	.7167-02	.4910	3.330	563.9
223	180.00	.75000	639.00	.7290-01	.5300-01	.8710-01	.9285	.2930-02	.4817-02	.3550	2.340	556.7
223	180.00	.80000	640.00	.9620-01	.6930-01	.1156	.9285	.3832-02	.6391-02	.4660	2.903	559.4
223	180.00	.85000	641.00	.1159	.8170-01	.1414	.9285	.4519-02	.7823-02	.5210	3.264	565.7
223	180.00	.86000	642.00	.1265	.9010-01	.1575	.9285	.4981-02	.8713-02	.5670	3.536	567.3
223	180.00	.87000	643.00	.1349	.9350-01	.1667	.9285	.5171-02	.9219-02	.5740	3.657	570.1

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F38)

IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
223	180.00	.88000	644.00	.1424	.9780-01	.1773	.9285	.5407-02	.9804-02	.5870	3.772	572.4
223	180.00	.89000	645.00	.1504	.1021	.1888	.9285	.5650-02	.1044-01	.6000	3.893	574.9
223	180.00	.90000	646.00	.1183	.8080-01	.1477	.9285	.4472-02	.8172-02	.4810	3.191	573.5
223	180.00	.95000	649.00	.4310-01	.3100-01	.5170-01	.9285	.1717-02	.2860-02	.2090	1.502	559.2
223	191.25	.35000	650.00	.8210-01	.5960-01	.9800-01	.9284	.3299-02	.5418-02	.4110	2.750	556.4
223	191.25	.36000	651.00	.8880-01	.6450-01	.1061	.9284	.3569-02	.5866-02	.4440	2.981	556.6
223	191.25	.37000	652.00	.9560-01	.6900-01	.1146	.9284	.3818-02	.6336-02	.4680	3.130	558.4
223	191.25	.37500	653.00	.9660-01	.6940-01	.1162	.9284	.3836-02	6429-02	.4640	3.105	560.2
223	191.25	.38000	654.00	.1035	.7430-01	.1246	.9284	.4107-02	.6893-02	.4950	3.317	560.5
223	191.25	.38500	655.00	.1154	.8220-01	.1399	.9284	.4545-02	.7735-02	.5370	3.593	562.9
223	191.25	.39000	656.00	.1301	.9230-01	.1581	.9284	.5105-02	.8745-02	.5900	3.996	564.0
223	191.25	.39500	657.00	.1435	.1016	.1745	.9284	.5521-02	.9649-02	.6560	4.386	564.3
223	191.25	.40000	658.00	.1480	.1041	.1810	.9284	.5758-02	.1001-01	.6610	4.426	566.3
223	191.25	.40500	659.00	.1665	.1159	.2051	.9284	.6410-02	.1135-01	.7180	4.803	569.0
223	191.25	.41000	660.00	.1973	.1350	.2462	.9284	.7468-02	.1362-01	.8060	5.362	573.2
223	191.25	.41500	661.00	.2220	.1513	.2782	.9284	.8367-02	.1539-01	.8940	5.926	574.2
223	191.25	.42000	662.00	.2982	.1933	.3893	.9284	.1069-01	.2153-01	1.035	6.851	584.2
223	191.25	.42500	663.00	.3474	.2204	.4623	.9284	.1219-01	.2557-01	1.136	7.525	587.9
223	191.25	.43000	664.00	.3852	.2335	.5352	.9284	.1291-01	.2960-01	1.117	7.442	594.6
223	191.25	.44000	665.00	.3299	.2101	.4376	.9284	.1162-01	.2420-01	1.089	7.240	587.3
223	191.25	.45000	666.00	.2400	.1632	.3013	.9284	.9025-02	.1366-01	.9600	6.420	574.7
223	191.25	.45500	667.00	.2240	.1511	.2830	.9284	.8355-02	.1565-01	.8740	5.837	576.5
223	191.25	.46000	668.00	.2119	.1432	.2673	.9284	.7919-02	.1478-01	.8310	5.574	576.1
223	191.25	.47000	669.00	.1774	.1220	.2206	.9284	.6748-02	.1220-01	.7360	4.959	572.0
223	191.25	.48000	670.00	.1477	.1032	.1814	.9284	.5709-02	.1003-01	.6460	4.362	567.9
223	191.25	.49000	671.00	.1506	.1047	.1858	.9284	.5792-02	.1027-01	.6470	4.354	569.3
223	191.25	.50000	672.00	.1786	.1208	.2251	.9284	6679-02	.1245-01	.7020	4.812	575.9
223	191.25	.60000	673.00	.1318	.9420-01	.1592	.9284	.5213-02	.8803-02	.6230	3.965	561.6
223	191.25	.70000	674.00	.1434	.9990-01	.1766	.9284	.5523-02	.9770-02	.6200	4.168	568.9
223	191.25	.85000	676.00	.1350	.9520-01	.1647	.9284	.5267-02	.9110-02	.6090	3.812	565.5
223	191.25	.86000	677.00	.1508	.1051	.1856	.9284	.5817-02	.1026-01	.6530	4.131	568.7
223	191.25	.87000	678.00	.1631	.1122	.2028	.9284	.6206-02	.1121-01	.6770	4.313	571.9
223	191.25	.88000	679.00	.1739	.1182	.2184	.9284	.6536-02	.1208-01	.6950	4.468	574.8
223	191.25	.89000	680.00	.1954	.1313	.2475	.9284	.7260-02	.1369-01	.7540	4.915	577.3
223	191.25	.90000	681.00	.1860	.1238	.2374	.9284	.6850-02	.1313-01	.6980	4.630	579.2
223	191.25	.91000	682.00	.1696	.1122	.2178	.9284	.6204-02	.1204-01	.6240	4.474	580.5
223	191.25	.92600	683.00	.4096	.2388	.5925	.9284	.1321-01	.3277-01	1.078	7.686	599.4
223	191.25	.95000	684.00	.3940-01	.2830-01	.4730-01	.9284	.1567-02	.2616-02	.1910	1.369	559.5
223	197.00	.33000	685.00	.7740-01	.5640-01	.9230-01	.9284	.3118-02	.5104-02	.3910	2.614	555.8
223	197.00	.34000	686.00	.7760-01	.5640-01	.9260-01	.9284	.3120-02	.5120-02	.3890	2.605	556.2
223	197.00	.35000	687.00	.8730-01	.6340-01	.1042	.9284	.3509-02	.5762-02	.4380	2.928	556.3
223	197.00	.36000	688.00	.1029	.7400-01	.1238	.9284	.4093-02	.6849-02	.4960	3.312	559.9
223	197.00	.37000	689.00	.1021	.7340-01	.1228	.9284	.4061-02	.6791-02	.4930	3.289	559.8

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F36)

IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
223	197.00	.37500	690.00	.1118	.7990-01	.1352	.9284	.4420-02	.7476-02	.5270	3.529	561.8
223	197.00	.50000	691.00	.2447	1550	.3244	.9284	.8530-02	.1794-01	.6110	5.341	587.1
223	197.00	.60000	692.00	.1149	.2220-01	.1307	.9284	.4548-02	.7669-02	.5456	3.489	561.3
223	197.00	.70000	693.00	.1683	.1126	.2141	.9284	.6229-02	.1184-01	.6410	4.281	578.2
223	197.00	.80000	694.00	.7530-01	.5450-01	.9020-01	.9284	.3014-02	.4987-02	.3710	2.322	557.8
223	197.00	.87000	695.00	.1755	.1204	.2188	.9284	.6661-02	.1210-01	.7230	4.546	572.6
223	197.00	.92600	696.00	.3809	.2258	.5418	.9294	.1249-01	.2997-01	1.044	7.449	597.5
224	209.80	.15000-01	697.00	.2561	.1852	.3071	.9283	.1024-01	.1699-01	.8000	.0000	539.9
224	209.80	.30000-01	699.00	.7777	.5272	.6427	.9721	.2226-01	.3567-01	3.095	20.76	575.4
224	209.80	.50000-01	699.00	.5954	.4165	.5207	.9668	.2312-01	.2890-01	2.609	16.41	568.2
224	209.80	.70000-01	700.00	.5953	.3717	.5320	.9593	.2063-01	.2953-01	1.871	12.38	580.4
224	209.80	.10000+00	701.00	.4088	.2766	.4060	.9507	.1535-01	.2254-01	1.577	10.16	575.8
224	209.80	.15000	702.00	.2112	.1440	.2357	.9389	.7992-02	.1308-01	.8658	6.037	574.1
224	209.80	.20000	703.00	.1176	.8660-01	.1360	.9312	.4805-02	.7546-02	.6190	4.114	552.2
224	209.80	.30000	704.00	.7140-01	.5260-01	.8450-01	.9283	.2918-02	.4693-02	.3770	2.663	552.0
224	209.80	.37500	705.00	.1283	.9250-01	.1542	.9283	.5133-02	.8259-02	.6260	4.274	559.1
224	209.80	.50000	707.00	.2163	.1485	.2697	.9283	.8643-02	.1497-01	.8960	6.054	572.4
224	209.80	.60000	708.00	.1084	.7990-01	.1293	.9283	.4395-02	.7176-02	.6500	3.484	555.6
224	209.80	.70000	709.00	.1072	.7670-01	.1298	.9283	.4266-02	.7195-02	.6080	3.221	551.5
224	209.80	.80000	710.00	.6910-01	.5040-01	.8230-01	.9283	.2795-02	.4669-02	.3920	2.182	555.3
224	209.80	.87000	711.00	.1478	.1036	.1815	.9283	.5749-02	.1008-01	.8640	4.880	587.4
224	209.80	.92600	712.00	.1951	.1237	.2604	.9283	.6867-02	.1445-01	.8390	4.551	588.1
224	209.80	.96000	713.00	.3443	.2521	.4096	.9282	.1389-01	.2273-01	1.780	10.22	553.9
224	217.70	.15000-01	714.00	.7643	.5167	.6355	.9714	.2878-01	.4508-01	3.382	20.47	575.1
224	217.70	.30000-01	715.00	.6546	.4503	[illegible]	.9661	.2503-01	.3171-01	2.733	17.65	571.7
224	217.70	.50000-01	716.00	.5728	.3553	[illegible]	.9592	.1976-01	.4858-01	[illegible]	[illegible].96	591.2
224	217.70	.70000-01	717.00	.4135	.2823	[illegible]	.9501	.1567-01	.2283-01	1.682	10.76	573.8
224	217.70	.10000+00	718.00	.2163	.1486	[illegible]	.9384	.8249-02	.1283-01	.9975	6.483	572.3
224	217.70	.15000	719.00	.1187	.8750-01	.13[illegible]	.9310	.4884-02	.7816-02	.6320	4.055	551.1
224	217.70	.20000	720.00	.9150-01	.6650-01	.10[illegible]	.9402	.3897-02	[illegible]-02	[illegible]	[illegible]	585.8
224	217.70	.30000	721.00	.1026	.7390-01	.12[illegible]	.9382	.4489-02	[illegible]-02	.6660	[illegible]	559.6
224	217.70	.35000	722.00	.1159	.8610-01	.13[illegible]	.9382	.4785-02	[illegible]-02	.6970	[illegible]	582.9
224	217.70	.37500	723.00	.2620	.1922	.29[illegible]	.9382	.8803-02	[illegible]-02	.9960	6.378	571.2
224	217.70	.50000	724.00	.9030-01	.6650-01	.1008	.9382	.3696-02	.5909-02	.6410	2.863	557.0
224	217.70	.70000	726.00	.7780-01	.5670-01	.9260	.9382	.3145-02	.5183-02	.5620	2.498	555.0
224	217.70	.80000	727.00	.1511	.1071	.1882	.9382	.6344-02	.1045-01	.8660	4.866	567.7
224	217.70	.87000	728.00	.1873	.1223	.2440	.9282	.8783-02	.1354-01	.8660	4.796	583.1
224	217.70	.92600	728.00	.1873	.1223	.2440	.9282	.8783-02	.1354-01	.8660	4.796	583.1

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F37)

IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = -5.000 BETA = -3.000 GRIT = 6.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
226	3.510	4.783	-5.030	2.900	30.00	57.00	.7370	682.0	196.7	6.352	2412.	.3141-03
228	3.510	4.798	-5.010	3.000	31.00	57.20	.7390	682.0	196.8	6.372	2413.	.3150-03
229	3.510	4.765	-4.990	3.000	31.00	56.80	.7350	682.0	196.9	6.335	2413.	.3130-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
226	.1584-06	.5537-01	.9293-02
228	.1584-06	.5546-01	.9279-02
229	.1585-06	.5531-01	.9310-02

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
228	.00000	.30000-02	730.00	.3811	.2668	.3419	.9634	.1479-01	.1896-01	1.681	11.42	568.0
228	.00000	.10300-01	731.00	.1366	.1018	.1611	.9278	.5644-02	.8936-02	.7540	5.189	548.0
228	.00000	.15000-01	732.00	.1136	.8570-01	.1329	.9278	.4754-02	.7369-02	.6590	4.493	543.0
228	.00000	.20000-01	733.00	.1266	.9440-01	.1186	.9599	.5238-02	.6578-02	.7030	4 825	547.4
228	.00000	.25000-01	734.00	.1939	.1401	.1828	.9579	.7768-02	.1014-01	.9540	6.449	558.8
228	.00000	.30000-01	735.00	.2750	.1936	.2611	.9563	.1074-01	.1448-01	1.237	8.385	566.4
228	.00000	.40000-01	737.00	.3547	.2517	.3410	.9549	.1396-01	.1891-01	1.638	10.60	564.2
228	.00000	.45000-01	738.00	.3700	.2613	.3603	.9533	.1449-01	.1998-01	1.680	11.02	565.7
228	.00000	.60000-01	739.00	.3183	.2181	.3224	.9486	.1210-01	.1788-01	1.310	8.686	573.4
228	.00000	.70000-01	740.00	.3513	.2378	.3659	.9458	.1319-01	.2029-01	1.392	9.275	576.1
228	.00000	.80000-01	741.00	.3230	.2202	.3449	.9432	.1221-01	.1913-01	1.307	9.370	574.6
228	.00000	.10000+00	742.00	.1919	.1382	.2104	.9387	.7664-02	.1167-01	.9330	6.194	559.8
228	.00000	.12500	743.00	.1361	.1033	.1513	.9342	.5727-02	.8391-02	.8090	5.904	540.3
228	.00000	.15000	744.00	.1131	.8590-01	.1286	.9309	.4766-02	.7133-02	.6760	4.720	539.7
228	.00000	.17500	745.00	.6790-01	.5120-01	.7880-01	.9288	.2840-02	.4371-02	.3930	2.960	543.2
228	.00000	.20000	746.00	.4940-01	.3730-01	.5770-01	.9279	.2070-02	.3200-02	.2880	2.065	542.4
228	.00000	.21500	747.00	.4220-01	.3160-01	.4950-01	.9278	.1755-02	.2746-02	.2390	1.66:	545.2
228	.00000	.23000	748.00	.3690-01	.2760-01	.4340-01	.9278	.1529-02	.2407-02	.2060	1.526	546.6

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F37)

IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
228	.00000	.24000	749.00	.3600-01	.2710-01	.4230-01	.9278	.1500-02	.2345-02	.2050	1.548	545.0
228	.00000	.25000	750.00	.3210-01	.2390-01	.3790-01	.9278	.1326-02	.2102-02	.1770	1.428	548.3
228	.00000	.30000	751.00	.4240-01	.3180-01	.4980-01	.9278	.1765-02	.2762-02	.2410	1.580	545.3
228	.00000	.40000	753.00	.5460-01	.4100-01	.6400-01	.9278	.2275-02	.3548-02	.3120	2.009	544.4
228	.00000	.50000	754.00	.7930-01	.5920-01	.9330-01	.9278	.3281-02	.5177-02	.4410	2.885	547.2
228	.00000	.60000	755.00	.8940-01	.6680-01	.1052	.9278	.3704-02	.5836-02	.4990	3.199	546.9
228	.00000	.70000	756.00	.9780-01	.7240-01	.1158	.9278	.4017-02	.6420-02	.5280	3.480	550.1
228	.00000	.80000	757.00	.1034	.7670-01	.1222	.9278	.4253-02	.6779-02	.5620	3.515	549.6
228	.00000	.90000	758.00	.1024	.7540-01	.1217	.9278	.4184-02	.6748-02	.5420	3.495	552.1
228	55.000	.22000	759.00	.4760-01	.3550-01	.5590-01	.9280	.1970-02	.3100-02	.2650	1.971	547.1
228	55.000	.25000	760.00	.3390-01	.2540-01	.3990-01	.9278	.1409-02	.2213-02	.1930	1.492	546.3
228	55.000	.27000	761.00	.3780-01	.2820-01	.4450-01	.9278	.1565-02	.2467-02	.2100	1.566	547.1
229	55.000	.30000	762.00	.5730-01	.4290-01	.6730-01	.9278	.2378-02	.3733-02	.3230	1.940	546.0
228	55.000	.32000	763.00	.5200-01	.3900-01	.6110-01	.9278	.2161-02	.3389-02	.2940	1.738	545.8
228	55.000	.34000	764.00	.7220-01	.5410-01	.8480-01	.9278	.2999-02	.4701-02	.4080	2.420	545.7
228	55.000	.36000	765.00	.1041	.7800-01	.1223	.9278	.4325-02	.6782-02	.5880	3.535	545.8
228	55.000	.38000	766.00	.9110-01	.6830-01	.1069	.9278	.3789-02	.5930-02	.5160	3.140	545.3
228	55.000	.40000	767.00	.7150-01	.5370-01	.8400-01	.9278	.2977-02	.4657-02	.4060	2.539	545.2
228	67.500	.23000	768.00	.5230-01	.3920-01	.6140-01	.9280	.2174-02	.3405-02	.2950	2.199	545.8
228	67.500	.25000	769.00	.3320-01	.2480-01	.3920-01	.9278	.1376-02	.2172-02	.1850	1.435	547.5
228	67.500	.27000	770.00	.4910-01	.3680-01	.5770-01	.9278	.2039-02	.3199-02	.2770	2.020	545.9
228	67.500	.29000	771.00	.5550-01	.4130-01	.6550-01	.9278	.2291-02	.3632-02	.3050	1.891	548.3
228	67.500	.30000	772.00	.5870-01	.4380-01	.6910-01	.9278	.2430-02	.3830-02	.3270	1.999	547.0
228	67.500	.31000	773.00	.7330-01	.5470-01	.8630-01	.9278	.3034-02	.4786-02	.4080	2.471	547.2
228	67.500	.32000	774.00	.1111	.8280-01	.1309	.9278	.4599-02	.7258-02	.6180	3.713	547.3
228	67.500	.32500	775.00	.1277	.9540-01	.1503	.9278	.5290-02	.8337-02	.7120	4.293	547.0
228	67.500	.33000	776.00	.1424	.1061	.1679	.9278	.5985-02	.9314-02	.7860	4.752	548.0
228	67.500	.33500	777.00	.1571	.1171	.1852	.9278	.6497-02	.1027-01	.8700	5.256	547.7
228	67.500	.34000	778.00	.1664	.1242	.1959	.9278	.6890-02	.1087-01	.9260	5.599	547.2
228	67.500	.34500	779.00	.1589	.1183	.1874	.9278	.6561-02	.1039-01	.8750	5.302	548.2
228	67.500	.35000	780.00	.1463	.1093	.1722	.9278	.6061-02	.9549-02	.8160	4.931	546.9
228	67.500	.35500	782.00	.1084	.8070-01	.1278	.9278	.4475-02	.7087-02	.5970	3.639	548.1
228	67.500	.36000	783.00	.9790-01	.7320-01	.1151	.9278	.4061-02	.6386-02	.5490	3.337	546.4
228	67.500	.36500	784.00	.9550-01	.6460-01	.1018	.9278	.3583-02	.5647-02	.4820	2.947	547.0
228	67.500	.37000	785.00	.7630-01	.5700-01	.8990-01	.9278	.3160-02	.4986-02	.4240	2.615	547.3
228	67.500	.37500	786.00	.6520-01	.4860-01	.7680-01	.9278	.2696-02	.4257-02	.3620	2.235	547.4
228	67.500	.38000	787.00	.5060-01	.3770-01	.5990-01	.9278	.2090-02	.3315-02	.2780	1.723	548.5
228	67.500	.39000	789.00	.4650-01	.3500-01	.5750-01	.9278	.1996-02	.3187-02	.2630	1.683	549.9
228	67.500	.50000	790.00	.7730-01	.5740-01	.9140-01	.9278	.3185-02	.5070-02	.4210	2.782	549.3
228	67.500	.60000	791.00	.8490-01	.6220-01	.1013	.9278	.3448-02	.5619-02	.4390	3.089	554.3
228	67.500	.70000	792.00	.1069	.7910-01	.1266	.9278	.4365-02	.7023-02	.5740	3.603	550.6
229	67.500	.80000	793.00	.1499	.1093	.1795	.9278	.6063-02	.9955-02	.7630	4.898	555.8
229	67.500	.90000	794.00	.4880-01	.3540-01	.5760-01	.9279	.2018-02	.3193-02	.2700	1.921	549.0
229	78.000	.27000										

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F37)

(IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
229	78.000	.29000	795.00	.8300-01	.6200-01	.9760-01	.9279	.3436-02	.5413-02	.4630	2.850	547.0
229	78.000	.30000	796.00	.1487	.1052	.1819	.9279	.5818-02	.1006-01	.6790	4.075	565.4
229	78.000	.31000	797.00	.1921	.1326	.2397	.9279	.7336-02	.1326-01	.8080	4.835	572.0
229	78.000	.32000	798.00	.2079	.1424	.2610	.9279	.7876-02	.1443-01	.8530	5.072	573.8
229	78.000	.32500	799.00	.2198	.1505	.2760	.9279	.8326-02	.1526-01	.9010	5.373	573.9
229	78.000	.33000	800.00	.2200	.1488	.2791	.9279	.8228-02	.1543-01	.8670	5.162	576.7
229	78.000	.33500	801.00	.2307	.1547	.2948	.9279	.8556-02	.1530-01	.8860	5.269	578.6
229	78.000	.34000	802.00	.2333	.1575	.2961	.9279	.8718-02	.1638-01	.9170	5.460	576.9
229	78.000	.34500	803.00	.2234	.1551	.2774	.9279	.8580-02	.1534-01	.9580	5.737	570.5
229	78.000	.35000	804.00	.2060	.1446	.2536	.9279	.7999-02	.1403-01	.9150	5.492	567.6
229	78.000	.35500	805.00	.1750	.1240	.2139	.9279	.6860-02	.1183-01	.8030	4.823	565.0
229	78.000	.36000	806.00	.1417	.1007	.1729	.9279	.5570-02	.9562-02	.6560	3.954	564.3
229	78.000	.36500	807.00	.1654	.1184	.2006	.9279	.6546-02	.1109-01	.7850	4.751	562.1
229	78.000	.37000	808.00	.1174	.8470-01	.1416	.9279	.4683-02	.7833-02	.5750	3.477	559.8
229	78.000	.37500	809.00	.1076	.7800-01	.1293	.9279	.4315-02	.7152-02	.5350	3.252	558.1
229	78.000	.38000	810.00	.9070-01	.6650-01	.1081	.9279	.3682-02	.5978-02	.4720	2.888	554.0
229	78.000	.39000	811.00	.5950-01	.4410-01	.7040-01	.9279	.2439-02	.3893-02	.3210	1.976	550.4
229	78.000	.40000	812.00	.3303	.2024	.4585	.9279	.1119-01	.2536-01	.9850	5.932	594.0
229	90.000	.24000	814.00	.6720-01	.4910-01	.8020-01	.9280	.2715-02	.4438-02	.3430	2.765	555.6
229	90.000	.27000	816.00	.6050-01	.4460-01	.7170-01	.9280	.2465-02	.3986-02	.3200	2.267	552.3
229	90.000	.29000	817.00	.1775	.1215	.2225	.9280	.6719-02	.1231-01	.7270	4.454	573.9
229	90.000	.30000	818.00	.2972	.1911	.3932	.9280	.1057-01	.2175-01	1.009	6.045	586.6
229	90.000	.31000	819.00	.3192	.2068	.4192	.9280	.1144-01	.2318-01	1.109	6.593	585.2
229	90.000	.32000	820.00	.3275	.2130	.4287	.9280	.1178-01	.2371-01	1.149	6.818	584.5
229	90.000	.32500	821.00	.3196	.2032	.4247	.9280	.1124-01	.2349-01	1.058	6.248	587.9
229	90.000	.33000	822.00	.2954	.1821	.4064	.9280	.1007-01	.2248-01	.8960	5.293	593.1
229	90.000	.34000	824.00	.4339	.2728	.5859	.9280	.1509-01	.3241-01	1.386	8.178	590.2
229	90.000	.34500	825.00	.3948	.2462	.5372	.9280	.1362-01	.2971-01	1.234	7.294	591.5
229	90.000	.35000	826.00	.4476	.2476	.6941	.9280	.1369-01	.3839-01	1.045	6.133	605.8
229	90.000	.36000	828.00	.2778	.1697	.3859	.9280	.9383-02	.2134-01	.8220	4.840	594.5
229	90.000	.36500	829.00	.2426	.1641	.3059	.9280	.9076-02	.1692-01	.9610	5.727	576.1
229	90.000	.37000	830.00	.1584	.1130	.1923	.9280	.6250-02	.1063-01	.7440	4.475	563.0
229	90.000	.37500	831.00	.1153	.8330-01	.1387	.9280	.4605-02	.7670-02	.5660	3.428	559.2
229	90.000	.38000	832.00	.9440-01	.6950-01	.1121	.9280	.3843-02	.6497-02	.4960	3.017	552.9
229	90.000	.39000	833.00	.5240-01	.3900-01	.6160-01	.9280	.2157-02	.3408-02	.2890	1.777	548.3
229	90.000	.40000	834.00	.6120-01	.4500-01	.7270-01	.9280	.2491-02	.4021-02	.3220	1.981	553.0
229	90.000	.50000	835.00	.4040-01	.2950-01	.4810-01	.9280	.1631-02	.2663-02	.2070	1.300	555.4
229	90.000	.60000	836.00	.5780-01	.4160-01	.6970-01	.9280	.2299-02	.3854-02	.2800	1.850	560.4
229	90.000	.70000	837.00	.1022	.7130-01	.1261	.9280	.3946-02	.6973-02	.4460	3.107	569.0
229	90.000	.80000	838.00	.8910-01	.6290-01	.1090	.9280	.3479-02	.6027-02	.4040	2.487	565.9
229	90.000	.90000	839.00	.3880-01	.2630-01	.4900-01	.9280	.1453-02	.2710-02	.1540	.9680	576.3
229	112.50	.23000	840.00	.8850-01	.6430-01	.1052	.9289	.3557-02	.5817-02	.4440	3.562	557.2
229	112.50	.25000	841.00	.5650-01	.4150-01	.6690-01	.9284	.2295-02	.3700-02	.2950	2.281	553.4

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F37)

IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TH DEG. R
229	112.50	.30000	843.00	.1410	.1016	.1695	.9284	.5619-02	.9375-02	.6850	4.049	560.1
229	112.50	.33000	844.00	.2646	.1805	.3315	.9284	.9980-02	.1833-01	1.070	6.363	574.8
229	112.50	.35000	845.00	.3188	.2116	.4084	.9284	.1170-01	.2259-01	1.186	7.146	580.7
229	112.50	.37000	846.00	.2266	.1581	.2788	.9284	.8745-02	.1542-01	.9870	6.015	569.2
229	112.50	.40000	847.00	.1184	.8640-01	.1410	.9284	.4778-02	.7797-02	.6030	3.741	555.9
229	112.50	.45000	848.00	.8960-01	.6570-01	.1063	.9284	.3635-02	.5878-02	.4650	2.914	554.0
229	112.50	.50000	849.00	.8990-01	.6500-01	.1078	.9284	.3592-02	.5965-02	.4410	2.820	559.2
229	112.50	.55000	850.00	.8[illegible]-01	.6120-01	.1046	.9284	.3385-02	.5786-02	.3990	2.639	564.3
229	112.50	.60000	851.00	.1551	.1073	.1921	.9264	.5935-02	.1062-01	.6570	4.348	571.4
229	112.50	.65000	852.00	.1812	.1242	.2262	.9284	.6867-02	.1251-01	.7440	4.994	573.7
229	112.50	.70000	853.00	.1562	.1066	.1957	.9284	.5894-02	.1082-01	.6320	4.376	574.8
229	112.50	.75000	854.00	.1183	.8230-01	.1459	.9284	.4552-02	.8071-02	.5100	3.270	570.0
229	112.50	.80000	855.00	.1208	.8490-01	.1479	.9284	.4693-02	.8178-02	.5380	3.464	567.4
229	112.50	.90000	856.00	.1905	.1284	.2408	.9284	.7104-02	.1332-01	.7440	4.752	577.3
229	125.40	.84000	857.00	.1250	.8780-01	.1529	.9285	.4854-02	.8456-02	.5550	3.396	567.7
229	125.40	.85000	858.00	.1183	.8310-01	.1446	.9285	.4598-02	.7997-02	.5270	3.244	567.4
229	125.40	.86000	859.00	.9070-01	.6390-01	.1107	.9285	.3531-02	.6124-02	.4070	2.522	566.9
229	125.40	.87000	860.00	.1027	.7200-01	.1258	.9285	.3984-02	.6955-02	.4550	2.827	568.0
229	125.40	.88000	861.00	.1290	.8980-01	.1589	.9285	.4964-02	.8787-02	.5560	3.454	570.0
229	125.40	.89000	862.00	.1589	.1091	.1977	.9285	.6033-02	.1034-01	.6560	4.091	573.4
229	125.40	.90000	863.00	.1828	.1248	.2282	.9285	.6903-02	.1262-01	.7420	4.654	574.5
229	125.40	.91000	864.00	.1881	.1269	.2372	.9285	.7017-02	.1312-01	.7350	5.263	577.3
229	125.40	.92600	865.00	.2386	.1474	.3247	.9285	.8153-02	.1796-01	.7280	5.154	592.8
229	129.30	.80000	866.00	.7820-01	.5580-01	.9450-01	.9286	.3086-02	.5228-02	.3670	2.287	563.2
229	129.30	.81000	867.00	.7160-01	.5110-01	.8650-01	.9286	.2826-02	.4785-02	.3360	2.083	563.1
229	129.30	.82000	868.00	.7270-01	.5180-01	.8790-01	.9286	.2865-02	.4864-02	.3400	2.104	563.5
229	129.30	.83000	869.00	.9380-01	.6600-01	.1145	.9286	.3650-02	.6333-02	.4200	2.603	567.1
229	135.00	.40000-01	870.00	.6323	.4280	.5190	.9729	.2367-01	.2870-01	2.499	15.83	576.5
229	135.00	.50000-01	871.00	.6150	.4194	.5219	.9691	.2319-01	.2886-01	2.487	15.68	574.9
229	135.00	.70000-01	873.00	.6136	.3736	.5311	.9621	.2066-01	.2937-01	1.802	11.97	594.9
229	135.00	.10000+00	875.00	.3120	.2119	.3042	.9527	.1172-01	.1682-01	1.246	8.061	575.7
229	135.00	.15000	876.00	.2205	.1503	.2425	.9403	.8313-02	.1341-01	.8900	6.425	575.0
229	135.00	.20000	877.00	.1373	.9810-01	.1602	.9321	.5427-02	.8860-02	.6490	4.339	562.6
229	135.00	.35000	878.00	.1137	.8230-01	.1357	.9286	.4554-02	.7506-02	.5640	3.482	558.3
229	135.00	.40000	879.00	.1736	.1215	.2125	.9286	.6722-02	.1175-01	.7650	4.793	558.3
229	135.00	.50000	880.00	.1983	.1351	.2478	.9286	.7472-02	.1371-01	.8000	5.413	575.1
229	135.00	.55000	881.00	.1632	.1130	.2015	.9286	.6250-02	.1114-01	.6930	4.558	571.2
229	135.00	.60000	882.00	.1327	.9380-01	.1612	.9286	.5190-02	.8917-02	.6050	4.025	565.6
229	135.00	.65000	883.00	.9640-01	.6890-01	.1163	.9286	.3811-02	.6430-02	.4550	3.083	562.6
229	135.00	.70000	884.00	.5410-01	.3890-01	.6490-01	.9286	.2154-02	.3591-02	.2620	1.849	560.5
229	135.00	.75000	885.00	.5980-01	.4280-01	.7200-01	.9286	.2369-02	.3980-02	.2850	1.782	561.8
229	135.00	.80000	886.00	.6420-01	.4630-01	.7690-01	.9286	.2562-02	.4252-02	.3140	1.960	559.6
229	135.00	.84000	887.00	.7590-01	.5380-01	.9460-01	.9130	.2678-02	.4234-02	.0000	.0000	244.7

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F37)

IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
226	180.00	.00000-01	600.00	.6404	.4251	.5251	.9717	.2354-01	.2908-01	2.386	15.09	580.2
226	180.00	.50000-01	601.00	.5857	.3907	.4966	.9680	.2164-01	.2750-01	2.215	14.05	579.2
226	180.00	.60000-01	602.00	.5108	.3203	.4360	.9644	.1773-01	.2414-01	1.620	10.56	590.2
226	180.00	.70000-01	603.00	.4998	.3039	.4377	.9610	.1683-01	.2424-01	1.464	9.753	594.6
226	180.00	.80000-01	604.00	.4951	.3050	.4515	.9578	.1689-01	.2500-01	1.499	9.531	592.8
226	180.00	.10000+00	605.00	.3123	.2107	.3072	.9517	.1167-01	.1701-01	1.221	8.635	576.8
226	180.00	.15000	606.00	.1967	.1327	.2186	.9396	.7350-02	.1210-01	.7710	5.519	576.7
226	180.00	.20000	607.00	.1279	.9070-01	.1506	.9317	.5021-02	.8339-02	.5880	3.800	564.5
226	180.00	.21000	608.00	.1063	.7580-01	.1259	.9306	.4200-02	.6970-02	.5000	3.425	562.6
226	180.00	.22000	609.00	.9490-01	.6780-01	.1132	.9297	.3757-02	.6267-02	.4490	3.317	562.0
226	180.00	.30000	610.00	.8130-01	.5890-01	.9730-01	.9285	.3262-02	.5387-02	.4030	2.744	558.0
226	180.00	.35000	611.00	.8310-01	.6020-01	.9930-01	.9285	.3333-02	.5501-02	.4120	2.731	557.8
226	180.00	.36000	612.00	.7500-01	.5430-01	.8980-01	.9285	.3006-02	.4975-02	.3700	2.475	558.3
226	180.00	.37500	614.00	.1147	.8110-01	.1395	.9285	.4493-02	.7726-02	.5230	3.486	565.0
226	180.00	.38000	615.00	.1257	8880-01	.1532	.9285	.4916-02	.8485-02	.5700	3.795	565.6
226	180.00	.38500	616.00	.1201	.8500-01	.1460	.9285	.4708-02	.8087-02	.5490	3.659	564.8
226	180.00	.39000	617.00	.1157	.8220-01	.1405	.9285	.4550-02	.7778-02	.5350	3.552	564.0
226	180.00	.39500	618.00	.1102	.7790-01	.1342	.9285	.4315-02	.7429-02	.5020	3.354	565.2
226	180.00	.40000	619.00	.1239	.8670-01	.1520	.9285	.4799-02	.8415-02	.5450	3.610	568.1
226	180.00	.40500	620.00	.1417	.9770-01	.1759	.9285	.5412-02	.9738-02	.5940	3.942	571.8
226	180.00	.41000	621.00	.1815	.1228	.2287	.9285	.6798-02	.1266-01	.7160	4.740	576.3
226	180.00	.41500	622.00	.2228	.1480	.2847	.9285	.8195-02	.1577-01	.8320	5.484	580.0
226	180.00	.42500	624.00	.3227	.2040	.4307	.9285	.1130-01	.2385-01	1.047	6.868	588.9
226	180.00	.43000	625.00	.3703	.2254	.5122	.9285	.1248-01	.2836-01	1.087	7.132	594.5
226	180.00	.44000	626.00	.3672	.2160	.5259	.9285	.1196-01	.2912-01	.9900	6.482	598.8
226	180.00	.44500	627.00	.3082	.1883	.4247	.9285	.1043-01	.2352-01	.9140	6.053	593.9
226	180.00	.45000	628.00	.2326	.1509	.3034	.9285	.8357-02	.1680-01	.8110	5.397	584.5
226	180.00	.45500	629.00	.1728	.1177	.2164	.9285	.6513-02	.1198-01	.6970	4.736	574.6
226	180.00	.46000	630.00	.1519	.1063	.1863	.9285	.5885-02	.1031-01	.6680	4.443	568.0
226	180.00	.47000	631.00	.1162	.8250-01	.1410	.9285	.4567-02	.7805-02	.5370	3.577	564.0
226	180.00	.48000	632.00	.9460-01	.6660-01	.1154	.9285	.3690-02	.6392-02	.4260	2.850	566.2
226	180.00	.49000	633.00	.1135	.7740-01	.1421	.9285	.4285-02	.7870-02	.4590	3.088	574.5
226	180.00	.50000	634.00	.1670	.1136	.2093	.9285	.6291-02	.1159-01	.6710	4.628	574.9
226	180.00	.55000	635.00	.1272	.8820-01	.1571	.9285	.4884-02	.8701-02	.5430	3.563	570.4
226	180.00	.60000	636.00	.1432	.1000+00	.1759	.9285	.5537-02	.9742-02	.6250	3.989	568.6
226	180.00	.65000	637.00	.1303	.9070-01	.1604	.9285	.5024-02	.8883-02	.5640	3.606	569.3
226	180.00	.70000	638.00	.8920-01	.6340-01	.1082	.9285	.3511-02	.5994-02	.4130	2.805	563.8
226	180.00	.75000	639.00	.6750-01	.4850-01	.8110-01	.9285	.2685-02	.4491-02	.3260	2.085	560.3
226	180.00	.80000	640.00	.8690-01	.6220-01	.1048	.9285	.3444-02	.5803-02	.4130	2.569	561.6
226	180.00	.85000	641.00	.1336	.9230-01	.1655	.9285	.5110-02	.9166-02	.5630	3.515	571.3
226	180.00	.86000	642.00	.1351	.9290-01	.1681	.9285	.5142-02	.9306-02	.5600	3.546	572.6
226	180.00	.87000	643.00	.1449	.9830-01	.1821	.9285	.5444-02	.1008-01	.5770	3.666	575.6
226	180.00	.88000	644.00	.1626	.1087	.2067	.9285	.6019-02	.1144-01	.6190	3.964	578.7

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OF POOR QUALITY

IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
226	180.00	.89000	645.00	.1722	.1131	.2222	.9285	.6265-02	.1230-01	.6230	4.026	582.2
226	180.00	.90000	646.00	.1237	.8200-01	.1584	.9285	.4540-02	.6769-02	.4590	3.033	580.4
226	180.00	.95000	649.00	.5340-01	.3810-01	.6460-01	.9285	.2111-02	.3579-02	.2510	1.799	562.6
226	191.25	.35000	650.00	.7820-01	.5660-01	.9370-01	.9283	.3136-02	.5190-02	.3870	2.588	558.1
226	191.25	.36000	651.00	.8000-01	.5780-01	.9600-01	.9283	.3201-02	.5315-02	.3930	2.637	558.6
226	191.25	.37000	652.00	.1131	.8020-01	.1375	.9283	.4442-02	.7514-02	.5210	3.473	564.2
226	191.25	.37500	653.00	.1369	.9650-01	.1673	.9283	.5342-02	.9263-02	.6170	4.118	566.1
226	191.25	.38000	654.00	.1313	.9300-01	.1598	.9283	.5152-02	.8846-02	.6030	4.029	564.5
226	191.25	.38500	655.00	.1300	.9180-01	.1587	.9283	.5083-02	.8787-02	.5890	3.935	565.6
226	191.25	.39000	656.00	.1282	.9050-01	.1564	.9283	.5012-02	.8661-02	.5810	3.883	565.5
226	191.25	.39500	657.00	.1353	.9530-01	.1655	.9283	.5278-02	.9162-02	.6080	4.062	566.3
226	191.25	.40000	658.00	.1450	.1013	.1785	.9283	.5611-02	.9882-02	.6340	4.243	568.5
226	191.25	.40500	659.00	.1489	.1031	.1845	.9283	.5710-02	.1022-01	.6330	4.228	570.7
226	191.25	.41000	660.00	.1744	.1193	.2183	.9283	.6603-02	.1209-01	.7110	4.732	573.8
226	191.25	.41500	661.00	.2012	.1369	.2526	.9283	.7583-02	.1399-01	.8090	5.345	574.8
226	191.25	.42000	662.00	.2600	.1692	.3391	.9283	.9367-02	.1877-01	.9140	6.046	584.0
226	191.25	.42500	663.00	.3015	.1912	.4023	.9283	.1058-01	.2227-01	.9860	6.528	588.4
226	191.25	.43000	664.00	.3633	.2177	.5121	.9283	.1205-01	.2835-01	1.025	6.821	596.5
226	191.25	.44000	665.00	.3142	.1958	.4261	.9283	.1084-01	.2359-01	.9800	6.503	591.1
226	191.25	.45000	666.00	.2281	.1532	.2895	.9283	.8485-02	.1603-01	.8810	5.885	577.7
226	191.25	.45500	667.00	.1990	.1343	.2517	.9283	.7436-02	.1394-01	.7790	5.206	576.8
226	191.25	.46000	668.00	.1762	.1198	.2216	.9283	.6634-02	.1227-01	.7060	4.735	575.1
226	191.25	.47000	669.00	.1298	.8960-01	.1613	.9283	.4959-02	.8932-02	.5450	3.673	571.7
226	191.25	.48000	670.00	.1264	.8810-01	.1558	.9283	.4878-02	.8624-02	.5490	3.704	569.0
226	191.25	.49000	671.00	.1719	.1176	.2151	.9283	.6509-02	.1191-01	.7010	4.708	573.8
226	191.25	.50000	672.00	.2142	.1435	.2725	.9283	.7945-02	.1509-01	.8200	5.611	578.3
226	191.25	.60000	673.00	.1130	.8040-01	.1372	.9283	.4451-02	.7599-02	.5250	3.337	563.6
226	191.25	.70000	674.00	.1569	.1087	.1944	.9283	.6019-02	.1076-01	.6670	4.487	570.7
226	191.25	.85000	676.00	.9440-01	.6540-01	.1169	.9283	.3621-02	.6473-02	.4020	2.508	570.6
226	191.25	.86000	677.00	.1064	.7290-01	.1330	.9283	.4035-02	.7364-02	.4360	2.752	573.4
226	191.25	.87000	678.00	.1133	.7640-01	.1433	.9283	.4230-02	.7936-02	.4430	2.813	576.9
226	191.25	.88000	679.00	.1229	.8140-01	.1578	.9283	.4507-02	.8738-02	.4550	2.918	580.6
226	191.25	.89000	680.00	.1414	.9190-01	.1847	.9283	.5086-02	.1023-01	.4950	3.213	584.3
226	191.25	.90000	681.00	.1222	.7830-01	.1615	.9283	.4338-02	.8942-02	.4120	2.721	586.6
226	191.25	.91000	682.00	.8870-01	.5660-01	.1176	.9283	.3135-02	.6510-02	.2960	2.113	587.3
226	191.25	.92600	683.00	.3286	.1885	.4852	.9283	.1044-01	.2687-01	.8340	5.939	601.6
226	191.25	.95000	684.00	.5400-01	.3840-01	.6550-01	.9283	.2127-02	.3629-02	.2510	1.800	563.4
226	197.00	.33000	685.00	.7490-01	.5440-01	.8960-01	.9282	.3012-02	.4961-02	.3750	2.508	557.0
226	197.00	.34000	686.00	.7520-01	.5450-01	.9000-01	.9282	.3018-02	.4986-02	.3740	2.502	557.5
226	197.00	.35000	687.00	.7280-01	.5270-01	.8730-01	.9282	.2916-02	.4832-02	.3600	2.404	558.2
226	197.00	.36000	688.00	.9490-01	.6800-01	.1148	.9282	.3766-02	.6354-02	.4520	3.019	561.4
226	197.00	.37000	689.00	.1222	.8660-01	.1489	.9282	.4794-02	.8247-02	.5600	3.731	564.7
226	197.00	.37500	690.00	.1334	.9330-01	.1642	.9282	.5166-02	.9089-02	.5860	3.906	568.2

IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA (RV7F37)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
226	197.00	.50000	691.00	.2580	.1624	.3171	.9282	.8991-02	.1922-01	.8270	5.439	589.6
226	197.00	.60000	692.00	.1278	.9020-01	.1562	.9282	.4992-02	.8651-02	.5780	3.689	565.8
226	197.00	.70000	693.00	.2499	.1675	.3182	.9282	.9277-02	.1762-01	.9590	6.401	578.2
226	197.00	.80000	694.00	.7240-01	.5140-01	.8800-01	.9282	.2846-02	.4872-02	.3350	2.086	563.9
226	197.00	.87000	695.00	.1204	.8150-01	.1521	.9282	.4512-02	.8424-02	.4760	2.987	576.1
229	197.00	.92600	696.00	.3200	.1859	.4670	.9282	.1029-01	.2586-01	.8370	5.963	600.2
229	209.80	.15000-01	697.00	.2561	.1852	.3071	.9283	.1024-01	.1698-01	.0000	.0000	539.9
228	209.80	.30000-01	698.00	.6286	.4291	.5332	.9693	.2380-01	.2957-01	2.556	17.15	574.2
228	209.80	.50000-01	699.00	.6486	.4432	.5738	.9641	.2458-01	.3182-01	2.645	16.59	574.0
228	209.80	.70000-01	700.00	.6046	.3722	.5541	.9573	.2064-01	.3073-01	1.830	12.10	592.9
228	209.80	.10000+00	701.00	.3802	.2571	.3859	.9485	.1426-01	.2140-01	1.501	9.427	576.4
228	209.80	.15000	702.00	.1687	.1246	.1854	.9372	.6912-02	.1028-01	.9025	6.441	551.1
228	209.80	.20000	703.00	.5220-01	.3880-01	.6030-01	.9304	.2153-02	.3345-02	.2870	1.909	548.4
228	209.80	.30000	704.00	.3740-01	.2780-01	.4410-01	.9280	.1545-02	.2446-02	.2060	1.456	548.4
228	209.80	.37500	706.00	.9380-01	.6970-01	.1107	.9280	.3865-02	.6141-02	.5120	3.510	549.2
228	209.80	.50000	707.00	.1773	.1307	.2103	.9280	.7248-02	.1166-01	.9400	6.417	551.9
228	209.80	.60000	708.00	.8140-01	.6010-01	.9640-01	.9280	.3334-02	.5346-02	.4350	2.765	551.2
228	209.80	.70000	709.00	.1176	.8630-01	.1399	.9280	.4784-02	.7759-02	.6120	3.890	553.6
228	209.80	.80000	710.00	.7710-01	.5670-01	.9170-01	.9280	.3143-02	.5083-02	.4040	2.511	553.0
228	209.80	.87000	711.00	.1448	.1053	.1734	.9280	.5842-02	.9618-02	.7300	4.592	556.6
228	209.80	.92600	712.00	.2486	.1786	.3004	.9280	.9905-02	.1666-01	1.199	8.657	560.6
228	217.70	.15000-01	713.00	.3100	.2255	.3714	.9279	.1251-01	.2160-01	1.565	10.72	556.5
228	217.70	.30000-01	714.00	.5937	.4067	.5096	.9680	.2255-01	.2826-01	2.440	16.38	573.4
228	217.70	.50000-01	715.00	.6366	.4359	.5694	.9628	.2417-01	.3158-01	2.613	16.82	573.5
228	217.70	.70000-01	716.00	.6046	.3675	.5604	.9561	.2038-01	.3108-01	1.771	11.80	594.7
228	217.70	.10000+00	717.00	.3877	.2633	.3974	.9474	.1460-01	.2204-01	1.551	9.916	575.4
228	217.70	.15000	718.00	.2061	.1541	.2267	.9365	.8548-02	.1258-01	1.156	8.460	546.4
228	217.70	.20000	719.00	.6640-01	.4970-01	.7660-01	.9300	.2757-02	.4250-02	.3750	2.526	545.8
228	217.70	.30000	720.00	.5410-01	.4020-01	.6380-01	.9279	.2229-02	.3538-02	.2960	2.115	548.8
228	217.70	.35000	721.00	.4790-01	.3570-01	.5640-01	.9279	.1978-02	.3130-02	.2640	1.828	548.1
228	217.70	.37500	722.00	.5430-01	.4050-01	.6390-01	.9279	.2247-02	.3544-02	.3020	2.090	547.3
228	217.70	.50000	723.00	.1445	.1072	.1707	.9279	.5946-02	.9465-02	.7860	5.422	549.5
228	217.70	.70000	725.00	.1072	.7890-01	.1275	.9279	.4375-02	.7069-02	.5640	3.576	552.7
228	217.70	.80000	726.00	.7920-01	.5830-01	.9410-01	.9279	.3232-02	.5221-02	.4170	2.613	552.6
228	217.70	.87000	727.00	.1507	.1100	.1802	.9279	.6101-02	.9994-02	.7690	4.898	555.5
228	217.70	.92600	728.00	.2283	.1648	.2752	.9279	.9139-02	.1526-01	1.119	8.089	559.1

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F38)

IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = -5.000 BETA = -6.000 GRIT = 6.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
230	3.510	4.754	-5.040	6.000	50.00	56.90	.7360	684.0	197.5	6.347	2417.	.3127-03
231	3.510	4.762	-5.040	6.000	50.00	56.90	.7360	683.0	197.3	6.348	2416.	.3131-03
232	3.510	4.775	-5.040	6.000	50.00	56.90	.7360	682.0	196.8	6.345	2413.	.3136-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
230	.1590-06	.5538-01	.9318-02
231	.1588-06	.5538-01	.9311-02
232	.1585-06	.5535-01	.9301-02

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
231	.00000	.30000-02	730.00	.3736	.2625	.3365	.9630	.1454-01	.1864-01	1.671	11 .5	568.4
231	.00000	.10300-01	731.00	.1362	.1018	.1603	.9278	.5638-02	.8875-02	.7630	5.249	548.0
231	.00000	.15000-01	732.00	.1293	.9780-01	.1510	.9278	.5414-02	.8362-02	.7580	5.164	543.3
231	.00000	.20000-01	733.00	.1556	.1157	.1460	.9596	.6409-02	.8085-02	.8540	5.858	550.0
231	.00000	.25000-01	734.00	.2805	.1982	.2638	.9576	.1097-01	.1461-01	1.278	8.605	566.9
231	.00000	.30000-01	735.00	.4007	.2757	.3799	.9560	.1527-01	.2104-01	1.671	11.29	573.8
231	.00000	.40000-01	737.00	.4143	.2911	.3987	.9546	.1612-01	.2208-01	1.851	11.95	568.4
231	.00000	.45000-01	738.00	.4404	.3071	.4292	.9530	.1701-01	.2377-01	1.921	12.57	570.4
231	.00000	.60000-01	739.00	.3306	.2252	.3356	.9484	.1247-01	.1859-01	1.337	8.853	576.1
231	.00000	.70000-01	740.00	.3351	.2289	.3494	.9456	.1268-01	.1935-01	1.367	9.112	575.5
231	.00000	.80000-01	741.00	.2837	.1929	.3036	.9430	.1068-01	.1681-01	1.140	8.163	576.6
231	.00000	.10000+00	742.00	.1864	.1346	.2044	.9386	.7452-02	.1132-01	.9160	6.078	560.4
231	.00000	.12500	743.00	.1385	.9870-01	.1590	.9341	.5464-02	.8803-02	.6490	4.674	564.6
231	.00000	.15000	744.00	.1150	.8310-01	.1348	.9309	.4604-02	.7466-02	.5670	3.917	560.1
231	.00000	.17500	745.00	.8110-01	.5930-01	.9610-01	.9288	.3285-02	.5320-02	.4180	3.125	556.1
231	.00000	.20000	746.00	.5950-01	.4430-01	.7020-01	.9279	.2452-02	.3890-02	.3270	2.336	549.9
231	.00000	.21500	747.00	.4920-01	.3650-01	.5830-01	.9278	.2021-02	.3229-02	.2660	1.842	551.5
231	.00000	.23000	748.00	.3750-01	.2770-01	.4450-01	.9278	.1533-02	.2464-02	.2000	1.475	552.7

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F38)

IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DT/DT DEG. R /SEC	TW DEG. R
231	.00000	.24000	749.00	.2840-01	.2100-01	.3360-01	.9278	.1164-02	.1862-02	.1530	1.151	551.8
231	.00000	.25000	750.00	.1330-01	.9900-02	.1570-01	.9278	.5459-03	.8691-03	.7200-01	.5850	550.6
231	.00000	.30000	751.00	.4210-01	.3110-01	.4990-01	.9278	.1723-02	.2764-02	.2260	1.477	552.3
231	.00000	.40000	753.00	.5970-01	.4410-01	.7080-01	.9278	.2445-02	.3920-02	.3200	2.055	552.2
231	.00000	.50000	754.00	.5510-01	.4020-01	.6600-01	.9278	.2225-02	.3656-02	.2800	1.825	557.3
231	.00000	.60000	755.00	.4270-01	.3120-01	.5120-01	.9278	.1726-02	.2833-02	.2180	1.390	557.0
231	.00000	.70000	756.00	.4830-01	.3470-01	.5850-01	.9278	.1919-02	.3241-02	.2320	1.522	562.3
231	.00000	.80000	757.00	.5790-01	.4160-01	.7020-01	.9278	.2301-02	.3889-02	.2780	1.729	562.5
231	55.000	.22000	759.00	.7560-01	.5530-01	.8980-01	.9286	.3060-02	.4971-02	.3890	2.878	556.3
231	55.000	.25000	760.00	.3880-01	.2840-01	.4630-01	.9279	.1574-02	.2563-02	.2010	1.568	555.6
231	55.000	.27000	761.00	.4880-01	.3560-01	.5840-01	.9279	.1970-02	.3231-02	.2490	1.840	557.1
231	55.000	.30000	762.00	.7700-01	.5640-01	.9190-01	.9279	.3122-02	.5091-02	.3980	2.381	555.9
231	55.000	.32000	763.00	.7220-01	.5320-01	.8580-01	.9279	.2949-02	.4749-02	.3830	2.260	553.3
231	55.000	.34000	764.00	.1090	.7910-01	.1309	.9279	.4379-02	.7248-02	.5450	3.213	558.8
231	55.000	.36000	765.00	.1283	.9240-01	.1548	.9279	.5117-02	.8573-02	.6250	3.733	561.1
231	55.000	.38000	766.00	.8070-01	.5860-01	.9680-01	.9279	.3245-02	.5363-02	.4050	2.446	558.5
231	55.000	.40000	767.00	.7070-01	.5150-01	.8470-01	.9279	.2852-02	.4692-02	.3580	2.227	557.6
231	67.500	.23000	768.00	.8400-01	.6110-01	.1001	.9285	.3382-02	.5545-02	.4230	3.132	558.1
231	67.500	.25000	769.00	.4590-01	.3340-01	.5480-01	.9281	.1852-02	.3034-02	.2330	1.806	557.3
231	67.500	.27000	770.00	.7230-01	.5260-01	.8640-01	.9281	.2913-02	.4785-02	.3660	2.653	557.8
231	67.500	.29000	771.00	.6940-01	.5040-01	.8310-01	.9281	.2790-02	.4600-02	.3480	2.146	558.4
231	67.500	.30000	772.00	.9890-01	.7180-01	.1185	.9281	.3974-02	.6561-02	.4950	3.007	558.7
231	67.500	.31000	773.00	.1170	.8410-01	.1411	.9281	.4658-02	.7811-02	.5570	3.410	561.6
231	67.500	.32000	774.00	.1457	.1031	.1779	.9281	.5709-02	.9854-02	.6670	3.969	566.5
231	67.500	.32500	775.00	.1594	.1196	.2072	.9281	.6623-02	.1147-01	.7690	4.592	567.1
231	67.500	.33000	776.00	.1624	.1136	.2000	.9281	.6291-02	.1108-01	.7150	4.274	569.6
231	67.500	.33500	777.00	.1636	.1141	.2019	.9281	.6318-02	.1118-01	.7140	4.263	570.4
231	67.500	.34000	778.00	.1830	.1274	.2261	.9281	.7058-02	.1252-01	.7950	4.747	570.7
231	67.500	.34500	779.00	.1896	.1324	.2338	.9281	.7333-02	.1295-01	.8310	4.977	570.0
231	67.500	.35000	780.00	.1639	.1155	.2007	.9281	.6398-02	.1111-01	.7410	4.456	567.5
231	67.500	.36000	782.00	.1182	.8440-01	.1434	.9281	.4671-02	.7939-02	.5570	3.458	564.0
231	67.500	.36500	783.00	.1082	.7780-01	.1305	.9281	.4307-02	.7226-02	.5240	3.160	561.7
231	67.500	.37000	784.00	.9830-01	.7100-01	.1182	.9281	.3931-02	.6546-02	.4830	2.933	560.4
231	67.500	.37500	785.00	.9760-01	.7050-01	.1174	.9281	.3903-02	.6503-02	.4750	2.934	560.5
231	67.500	.38000	786.00	.8120-01	.5890-01	.9730-01	.9281	.3263-02	.5386-02	.4070	2.498	558.7
231	67.500	.39000	787.00	.6500-01	.4750-01	.7750-01	.9281	.2631-02	.4291-02	.3340	2.060	556.3
231	67.500	.40000	788.00	.5200-01	.3830-01	.6180-01	.9281	.2119-02	.3421-02	.2730	1.703	554.2
231	67.500	.50000	789.00	.2420-01	.1770-01	.2900-01	.9281	.9786-03	.1604-02	.1230	.7860	557.3
231	67.500	.60000	790.00	.5090-01	.3650-01	.6140-01	.9281	.2021-02	.3402-02	.2440	1.591	562.3
231	67.500	.70000	791.00	.2190-01	.1540-01	.2690-01	.9281	.8521-03	.1490-02	.9800-01	.6830	558.6
231	67.500	.90000	793.00	.9830-01	.6690-01	.1238	.9281	.3705-02	.6854-02	.3960	2.517	576.4
231	78.000	.27000	794.00	.7840-01	.5670-01	.9390-01	.9284	.3139-02	.5200-02	.3870	2.744	559.9
232	78.000	.29000	795.00	.1162	.8300-01	.1404	.9284	.4599-02	.7773-02	.5510	3.367	563.5

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F38)

IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
232	78.000	.30000	796.00	.1903	.1325	.2346	.9284	.7332-02	.1298-01	.8220	4.929	569.7
232	78.000	.31000	797.00	.2277	.1552	.2853	.9284	.8588-02	.1579-01	.9190	5.496	574.8
232	78.000	.32000	798.00	.2326	.1577	.2926	.9284	.8731-02	.1619-01	.9250	5.495	575.9
232	78.000	.32500	799.00	.2385	.1616	.3003	.9284	.8943-02	.1662-01	.9450	5.631	576.1
232	78.000	.33000	800.00	.2383	.1593	.3033	.9284	.8814-02	.1679-01	.9060	5.390	579.0
232	78.000	.33500	801.00	.2668	.1770	.3418	.9284	.9796-02	.1892-01	.3920	5.897	580.6
232	78.000	.34000	802.00	.2541	.1703	.3227	.9284	.9424-02	.1786-01	.9740	5.795	578.5
232	78.000	.34500	803.00	.2411	.1663	.2993	.9284	.9202-02	.1656-01	1.011	6.051	572.0
232	78.000	.35000	804.00	.2208	.1542	.2716	.9284	.8532-02	.1503-01	.9630	5.774	569.0
232	78.000	.35500	805.00	.1826	.1290	.2226	.9284	.7140-02	.1232-01	.8290	4.979	565.7
232	78.000	.36000	806.00	.1574	.1112	.1919	.9284	.6153-02	.1062-01	.7140	4.301	565.7
232	78.000	.36500	807.00	.1631	.1156	.1983	.9284	.6396-02	.1098-01	.7480	4.520	564.8
232	78.000	.37000	808.00	.1205	.8640-01	.1452	.9284	.4780-02	.8039-02	.5760	3.494	561.4
232	78.000	.37500	809.00	.1119	.8070-01	.1343	.9284	.4467-02	.7434-02	.5470	3.319	559.5
232	78.000	.38000	810.00	.8940-01	.6520-01	.1065	.9284	.3607-02	.5892-02	.4540	2.778	556.0
232	78.000	.39000	811.00	.6720-01	.4950-01	.7940-01	.9284	.2742-02	.4395-02	.3560	2.187	552.0
232	78.000	.40000	812.00	.3512	.2126	.4889	.9284	.1177-01	.2706-01	1.017	6.115	595.4
232	90.000	.24000	814.00	.8510-01	.6140-01	.1019	.9287	.3398-02	.5638-02	.41[illegible]	3.341	559.5
232	90.000	.27000	816.00	.8570-01	.6250-01	.1019	.9287	.3458-02	.5637-02	.43__	3.075	556.1
232	90.000	.29000	817.00	.2318	.1549	.2937	.9287	.8573-02	.1626-01	.8810	5.389	579.0
232	90.000	.30000	818.00	.3492	.2207	.4640	.9287	.1222-01	.2568-01	1.132	6.776	589.2
232	90.000	.31000	819.00	.3591	.2292	.4730	.9287	.1269-01	.2618-01	1.196	7.104	587.6
232	90.000	.32000	820.00	.3507	.2245	.4607	.9287	.1243-01	.2550-01	1.178	6.980	587.1
232	90.000	.32500	821.00	.3247	.2032	.4355	.9287	.1125-01	.2410-01	1.024	6.043	590.7
232	90.000	.33000	822.00	.3153	.1906	.4369	.9287	.1055-01	.2418-01	.9090	5.365	595.6
232	90.000	.34000	824.00	.4549	.2827	.6138	.9287	.1565-01	.3397-01	1.410	8.310	591.8
232	90.000	.34500	825.00	.4034	.2520	.5418	.9287	.1395-01	.2999-01	1.267	7.495	591.0
232	90.000	.35000	826.00	.4083	.2244	.6269	.9287	.1242-01	.3470-01	.9400	5.516	606.2
232	90.000	.36000	828.00	.2809	.1697	.3893	.9287	.9391-02	.2155-01	.8090	4.759	595.7
232	90.000	.36500	829.00	.2483	.1665	.3140	.9287	.9215-02	.1738-01	.9530	5.672	578.4
232	90.000	.37000	830.00	.1691	.1201	.2046	.9287	.6647-02	.1133-01	.7820	4.697	564.2
232	90.000	.37500	831.00	.1256	.9040-01	.1505	.9287	.5003-02	.8327-02	.6090	3.687	560.1
232	90.000	.38000	832.00	.9520-01	.6970-01	.1127	.9287	.3857-02	.6239-02	.4910	2.980	554.6
232	90.000	.39000	833.00	.6060-01	.4510-01	.7100-01	.9287	.2493-02	.3931-02	.3310	2.039	549.0
232	90.000	.40000	834.00	.5880-01	.4320-01	.6940-01	.9287	.2391-02	.3843-02	.3070	1.894	553.2
232	90.000	.50000	835.00	.4160-01	.3020-01	.4950-01	.9287	.1669-02	.2741-02	.2070	1.303	557.6
232	90.000	.60000	836.00	.5030-01	.3620-01	.6040-01	.9287	.2003-02	.3341-02	.2430	1.609	560.5
232	90.000	.70000	837.00	.9840-01	.6810-01	.1214	.9287	.3772-02	.6717-02	.4180	2.907	571.0
232	90.000	.80000	838.00	.1108	.7760-01	.1355	.9287	.4297-02	.7498-02	.4890	3.007	568.0
232	90.000	.90000	839.00	.5830-01	.3960-01	.7300-01	.9287	.2191-02	.4041-02	.2320	1.464	575.7
232	112.50	.23000	840.00	.1055	.7600-01	.1248	.9301	.4204-02	.6906-02	.5120	4.104	559.9
232	112.50	.25000	841.00	.7100-01	.5160-01	.8410-01	.9293	.2854-02	.4657-02	.3550	2.740	557.3
232	112.50	.30000	843.00	.1668	.1191	.2000	.9293	.6594-02	.1107-01	.7860	4.640	562.6

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F38)

IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	(TWDT DEG. R /SEC	TW DEG. R
232	112.50	.33000	844.00	.3184	.2122	.4019	.9293	.1174-01	.2224-01	1.200	7.114	579.7
232	112.50	.35000	845.00	.3453	.2289	.4376	.9293	.1267-01	.2422-01	1.281	7.721	580.7
232	112.50	.37000	846.00	.2187	.1526	.2665	.9293	.8446-02	.1475-01	.9530	5.807	569.0
232	112.50	.40000	847.00	.1199	.8730-01	.1418	.9293	.4832-02	.7847-02	.6060	3.761	556.3
232	112.50	.45000	848.00	.9200-01	.6730-01	.1085	.9293	.3722-02	.6005-02	.4720	2.956	555.0
232	112.50	.50000	849.00	.9120-01	.6550-01	.1089	.9293	.3624-02	.6025-02	.4380	2.800	560.8
232	112.50	.55000	850.00	.6640-01	.4710-01	.7990-01	.9293	.2608-02	.4421-02	.3070	2.030	564.3
232	112.50	.60000	851.00	.1477	.1027	.1806	.9293	.5683-02	.9993-02	.6350	4.208	570.0
232	112.50	.65000	852.00	.2268	.1528	.2837	.9293	.8456-02	.1570-01	.8840	5.921	577.3
232	112.50	.70000	853.00	.1800	.1211	.2255	.9293	.6703-02	.1248-01	.6980	4.827	577.6
232	112.50	.75000	854.00	.1350	.9240-01	.1670	.9293	.5114-02	.9241-02	.5520	3.533	573.9
232	112.50	.80000	855.00	.1398	.9680-01	.1714	.9293	.5357-02	.9487-02	.5930	3.814	571.1
232	112.50	.90000	856.00	.1912	.1262	.2432	.9293	.6982-02	.1346-01	.6990	4.459	581.7
232	125.40	.84000	857.00	.1660	.1155	.2025	.9294	.6392-02	.1121-01	.7160	4.372	569.9
232	125.40	.85000	858.00	.1506	.1047	.1838	.9294	.5797-02	.1017-01	.6480	3.983	570.0
232	125.40	.86000	859.00	.1068	.7450-01	.1299	.9294	.4126-02	.7190-02	.4660	2.887	568.9
232	125.40	.87000	860.00	.1304	.9050-01	.1593	.9294	.5007-02	.8814-02	.5580	3.465	570.4
232	125.40	.88000	861.00	.1811	.1236	.2239	.9294	.6840-02	.1239-01	.7350	4.553	574.4
232	125.40	.89000	862.00	.2867	.1897	.3630	.9294	.1050-01	.2009-01	1.059	6.578	581.0
232	125.40	.90000	863.00	.3035	.1981	.3886	.9294	.1096-01	.2151-01	1.076	6.714	583.7
232	125.40	.91000	864.00	.2007	.1295	.2593	.9294	.7168-02	.1435-01	.6890	4.914	585.7
232	125.40	.92600	865.00	.2859	.1635	.4133	.9294	.9047-02	.2287-01	.7200	5.077	602.2
232	129.30	.80000	866.00	.1110	.7800-01	.1344	.9294	.4317-02	.7440-02	.4950	3.078	567.2
232	129.30	.81000	867.00	.1134	.7980-01	.1371	.9294	.4419-02	.7587-02	.5090	3.151	566.6
232	129.30	.82000	868.00	.1018	.7170-01	.1230	.9294	.3970-02	.6808-02	.4580	2.835	566.4
232	129.30	.83000	869.00	.1258	.8750-01	.1534	.9294	.4841-02	.8490-02	.5420	3.358	569.9
232	135.00	.40000-01	870.00	.5345	.3679	.4306	.9766	.2036-01	.2383-01	2.227	14.14	572.5
232	135.00	.50000-01	871.00	.6169	.4229	.5098	.9729	.2340-01	.2822-01	2.537	16.00	573.5
232	135.00	.70000-01	873.00	.6586	.4023	.5487	.9657	.2227-01	.3037-01	1.951	12.96	594.2
232	135.00	.10000+00	875.00	.3919	.2646	.3704	.9560	.1465-01	.2050-01	1.538	9.940	576.9
232	135.00	.15000	876.00	.2638	.1770	.2837	.9429	.9797-02	.1570-01	1.015	7.310	578.3
232	135.00	.20000	877.00	.1627	.1155	.1877	.9337	.6390-02	.1039-01	.7500	5.015	564.4
232	135.00	.35000	878.00	.1311	.9420-01	.1563	.9294	.5213-02	.8651-02	.6310	3.896	560.7
232	135.00	.40000	879.00	.2039	.1399	.2512	.9294	.7742-02	.1390-01	.8410	5.260	573.2
232	135.00	.50000	880.00	.1902	.1292	.2360	.9294	.7151-02	.1306-01	.7600	5.147	575.5
232	135.00	.55000	881.00	.1702	.1175	.2087	.9294	.6501-02	.1155-01	.7160	4.708	571.8
232	135.00	.60000	882.00	.1437	.1011	.1738	.9294	.5598-02	.9622-02	.6440	4.286	566.8
232	135.00	.65000	883.00	.1287	.9080-01	.1554	.9294	.5023-02	.8603-02	.5810	3.926	562.2
232	135.00	.70000	884.00	.8200-01	.5820-01	.9870-01	.9294	.3221-02	.5461-02	.3780	2.663	564.5
232	135.00	.75000	885.00	.1118	.7840-01	.1356	.9294	.4339-02	.7505-02	.4950	3.087	567.8
232	135.00	.80000	886.00	.1065	.7540-01	.1282	.9294	.4175-02	.7094-02	.4880	3.041	564.9
232	135.00	.84000	887.00	.7590-01	.5980-01	.9460-01	.9130	.2678-02	.4234-02	.0000	.0000	244.7
230	180.00	.40000-01	600.00	.5806	.3912	.4812	.9713	.2166-01	.2665-01	2.271	14.37	579.1

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F38)

IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
230	180.00	.50000-01	601.00	.5618	.3785	.4797	.9677	.2096-01	.2657-01	2.197	13.94	579.1
230	180.00	.60000-01	602.00	.5130	.3264	.4417	.9641	.1808-01	.2446-01	1.700	11.08	589.9
230	180.00	.70000-01	603.00	.5400	.3339	.4768	.9607	.1849-01	.2640-01	1.657	11.04	594.4
230	180.00	.80000-01	604.00	.5299	.3304	.4857	.9575	.1829-01	.2690-01	1.662	10.56	593.1
230	180.00	.10000+00	605.00	.3338	.2244	.3288	.9515	1243-01	.1821-01	1.295	9.151	579.7
230	180.00	.15000	606.00	.2196	.1475	.2447	.9395	.8166-02	.1355-01	.8500	6.080	579.9
230	180.00	.20000	607.00	.1367	.9690-01	.1609	.9317	.5366-02	.8913-02	.6300	4.071	566.5
230	180.00	.21000	608.00	.1113	.7930-01	.1319	.9306	.4393-02	.7302-02	.5230	3.583	564.8
230	180.00	.22000	609.00	.9940-01	.7100-01	.1187	.9297	.3932-02	.6573-02	.4700	3.470	564.3
230	180.00	.30000	610.00	.7510-01	.5440-01	.8990-01	.9285	.3012-02	.4979-02	.3730	2.536	560.1
230	180.00	.35000	611.00	.9240-01	.6700-01	.1105	.9285	.3710-02	.6121-02	.4610	3.049	559.8
230	180.00	.36000	612.00	.8030-01	.5790-01	.9650-01	.9285	.3206-02	.5342-02	.3930	2.619	561.6
230	180.00	.37500	614.00	.1154	.8140-01	.1408	.9285	.4510-02	.7796-02	.5230	3.481	567.9
230	180.00	.38000	615.00	.1110	.7850-01	.1351	.9285	.4347-02	.7481-02	.5080	3.378	567.2
230	180.00	.38500	616.00	.1093	.7730-01	.1331	.9285	.4280-02	.7370-02	.5000	3.324	567.2
230	180.00	.39000	617.00	.1188	.8400-01	.1439	.9285	.4682-02	.7969-02	.5560	3.688	565.3
230	180.00	.39500	618.00	.1130	.7950-01	.1380	.9285	.4403-02	.7642-02	.5080	3.390	568.5
230	180.00	.40000	619.00	.1251	.8710-01	.1541	.9285	.4822-02	.8536-02	.5420	3.539	571.5
230	180.00	.40500	620.00	.1576	.1082	.1963	.9285	.5993-02	.1087-01	.6540	4.333	574.9
230	180.00	.41000	621.00	.2122	.1422	.2693	.9285	.7876-02	.1491-01	.8170	5.399	580.3
230	180.00	.41500	622.00	.2575	.1695	.3317	.9285	.9386-02	.1857-01	.9390	6.179	583.9
230	180.00	.42500	624.00	.3081	.1948	.4111	.9285	.1079-01	.2277-01	1.003	6.576	591.0
230	180.00	.43000	625.00	.3402	.2073	.4700	.9285	.1148-01	.2603-01	1.005	6.590	596.4
230	190.00	.44000	626.00	.3643	.2141	.5220	.9285	.1186-01	.2891-01	.9840	6.436	601.0
230	180.00	.44500	627.00	.3158	.1929	.4354	.9285	.1068-01	.2411-01	.9380	6.211	596.1
230	180.00	.45000	628.00	.2492	.1610	.3261	.9285	.8918-02	.1806-01	.9620	5.731	587.3
230	180.00	45500	629.00	.2030	.1375	.2555	.9285	.7613-02	.1415-01	.8060	5.468	578.1
230	180.00	.46000	630.00	.1928	.1333	.2388	.9285	.7392-02	.1323-01	.8180	5.423	573.2
230	180.00	.47000	631.00	.1602	.1111	.1979	.9285	.6153-02	.1096-01	.6870	4.557	572.4
230	180.00	.48000	632.00	.1143	.7920-01	.1413	.9285	.4385-02	.7824-02	.4880	3.259	572.6
230	180.00	.49000	633.00	.1232	.8400-01	.1542	.9285	.4654-02	.8542-02	.5000	3.365	576.5
230	180.00	.50000	634.00	.1522	.1046	.1892	.9285	.5795-02	.1048-01	.6340	4.378	574.5
230	180.00	.60000	635.00	.1305	.9090-01	.1607	.9285	.5035-02	.8902-02	.5670	3.614	571.3
230	180.00	.65000	637.00	.7460-01	.5310-01	.9040-01	.9285	.2938-02	.5008-02	.3480	2.228	565.6
230	180.00	.70000	638.00	.5090-01	.3630-01	.6150-01	.9285	.2012-02	.3407-02	.2400	1.631	564.5
230	80.00	.75000	639.00	.3080-01	.2860-01	.4790-01	.9285	.1586-02	.2651-02	.1930	1.236	562.2
230	180.00	.80000	640.00	.4190-01	.3000-01	.5060-01	.9285	.1662-02	.2800-02	.2000	1.244	563.5
230	180.00	.85000	641.00	.8530-01	.5870-01	.1054	.9285	.3350-02	.5834-02	.3590	2.239	573.5
230	180.00	.86000	642.00	.1000+00	.6850-01	.1247	.9285	.3792-02	.6905-02	.4120	2.601	575.4
230	180.00	.87000	643.00	.1074	.7250-01	.1354	.9285	.4015-02	.7499-02	.4230	2.683	578.7
230	180.00	.88000	644.00	.1120	.7460-01	.1430	.9285	.4129-02	.7919-02	.4220	2.699	581.7
230	180.00	.89000	645.00	.1405	.9150-01	.1825	.9285	.5069-02	.1011-01	.4980	3.213	585.8
230	180.00	.90000	646.00	.8190-01	.5390-01	.1057	.9285	.2979-02	.5855-02	.2970	1.958	584.3

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F3B)

— IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
230	180.00	.95000	649.00	.4500-01	.3200-01	.5460-01	.9285	.1771-02	.3023-02	.2090	1.497	565.8
230	191.25	.35000	650.00	.8090-01	.5830-01	.9740-01	.9282	.3231-02	.5392-02	.3960	2.643	561.4
230	191.25	.36000	651.00	.1036	.7390-01	.1256	.9282	.4091-02	.6955-02	.4830	3.262	564.6
230	191.25	.37000	652.00	.1277	.9050-01	.1557	.9282	.5013-02	.8620-02	.5890	3.917	566.6
230	191.25	.37500	653.00	.1185	.8390-01	.1446	.9282	.4646-02	.8007-02	.5440	3.629	566.9
230	191.25	.38000	654.00	.1032	.7350-01	.1253	.9282	.4069-02	.6940-02	.4830	3.229	565.2
230	191.25	.38500	655.00	.1000+00	.7090-01	.1218	.9282	.3928-02	.6743-02	.4620	3.087	566.3
230	191.25	.39000	656.00	.1157	.8160-01	.1414	.9282	.4521-02	.7830-02	.5260	3.507	567.7
230	191.25	.39500	657.00	.1125	.7890-01	.1381	.9282	.4371-02	.7650-02	.5010	3.340	569.3
230	191.25	.40000	658.00	.1297	.9010-01	.1605	.9282	.4987-02	.8888-02	.5580	3.726	572.0
230	191.25	.40500	659.00	.1430	.9840-01	.1784	.9282	.5447-02	.9877-02	.5970	3.980	574.4
230	191.25	.41000	660.00	.1538	.1050	.1929	.9282	.5815-02	.1068-01	.6270	4.165	576.1
230	191.25	.41500	661.00	.1840	.1254	.2313	.9282	.6942-02	.1281-01	.7450	4.931	578.7
230	191.25	.42000	662.00	.2393	.1564	.3115	.9282	.9061-02	.1725-01	.8550	5.652	585.3
230	191.25	.42500	663.00	.2782	.1772	.3704	.9282	.9811-02	.2051-01	.9240	6.116	589.8
230	191.25	.43000	664.00	.3281	.1973	.4616	.9282	.1093-01	.2556-01	.9380	6.239	598.1
230	191.25	.44000	665.00	.3274	.2017	.4497	.9282	.1117-01	.2490-01	.9950	6.592	594.9
230	191.25	.45000	666.00	.2197	.1465	.2810	.9282	.8115-02	.1556-01	.8330	5.556	581.3
230	191.25	.45500	667.00	.1810	.1219	.2297	.9282	.6749-02	.1272-01	.7070	4.715	579.3
230	191.25	.46000	668.00	.1476	.1004	.1858	.9282	.5561-02	.1029-01	.5950	3.984	577.1
230	191.25	.47000	669.00	.1072	.7420-01	.1330	.9282	.4108-02	.7367-02	.4560	3.073	572.9
230	191.25	.48000	670.00	.1150	.8030-01	.1419	.9282	.4444-02	.7856-02	.5030	3.390	570.8
230	191.25	.49000	671.00	.1776	.1190	.2262	.9282	.6589-02	.1253-01	.6830	4.569	580.3
230	191.25	.50000	672.00	.1874	.1257	.2384	.9282	.6964-02	.1320-01	.7240	4.951	580.0
230	191.25	.60000	673.00	.1295	.9140-01	.1582	.9282	.5063-02	.8761-02	.5090	3.740	567.6
230	191.25	.70000	674.00	.1236	.8610-01	.1525	.9282	.4771-02	.8444-02	.5390	3.621	571.0
230	191.25	.80000	675.00	.1157	.7950-01	.1445	.9282	.4401-02	.8000-02	.4810	2.996	574.8
230	191.25	.85000	676.00	.1279	.8700-01	.1610	.9282	.4817-02	.8914-02	.5150	3.243	577.1
230	191.25	.86000	677.00	.1002	.6750-01	.1269	.9282	.3741-02	.7029-02	.3930	2.493	578.9
230	191.25	.87000	678.00	.1225	.8070-01	.1582	.9282	.4473-02	.8762-02	.4480	2.872	583.7
230	191.25	.88000	679.00	.1236	.8010-01	.1619	.9282	.4438-02	.8967-02	.4320	2.803	586.7
230	191.25	.89000	680.00	.9860-01	.6270-01	.1314	.9282	.3474-02	.7276-02	.3270	2.156	589.9
230	191.25	.90000	681.00	.8190-01	.4900-01	.1158	.9282	.2714-02	.6413-02	.2310	1.649	590.8
230	191.25	.92600	683.00	.3130-01	.2240-01	.3800-01	.9282	.1238-02	.2105-02	.1480	1.057	564.7
230	191.25	.95000	684.00	.6910-01	.5010-01	.8300-01	.9280	.2774-02	.4594-02	.3450	2.301	559.7
230	197.00	.33000	685.00	.6790-01	.4910-01	.8170-01	.9280	.2721-02	.4523-02	.3360	2.243	560.5
230	197.00	.34000	686.00	.7710-01	.5570-01	.9290-01	.9280	.3083-02	.5143-02	.3790	2.527	561.1
230	197.00	.35000	687.00	.1253	.8820-01	.1536	.9280	.4886-02	.8507-02	.5650	3.757	568.3
230	197.00	.36000	688.00	.1424	.1003	.1747	.9280	.5554-02	.9674-02	.6420	4.268	568.4
230	197.00	.37000	689.00	.1520	.1047	.1897	.9280	.5796-02	.1050-01	.6370	4.234	574.1
230	197.00	.37500	690.00	.2728	.1687	.3743	.9280	.9342-02	.2073-01	.8370	5.495	594.4
230	197.00	.50000	691.00	.1475	.1029	.1822	.9280	.5699-02	.1009-01	.6450	4.107	570.9
230	197.00	.60000	692.00	.1830	.1234	.2323	.9280	.6836-02	.1286-01	.7180	4.792	578.9
230	197.00	.70000	693.00									

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F38)

IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
230	197.00	.80000	694.00	.4590-01	.3250-01	.5600-01	.9280	.1800-02	.3101-02	.2110	1.315	566.6
232	197.00	.87000	695.00	.1243	.8330-01	.1586	.9280	.4615-02	.8784-02	.4790	3.000	580.3
232	197.00	.92600	696.00	.3200	.1859	.4670	.9282	.1029-01	.2586-01	.8370	5.963	600.2
232	209.80	.15000-01	697.00	.2561	.1852	.3071	.9283	.1024-01	.1698-01	.0000	.0000	539.9
231	209.80	.30000-01	698.00	.5322	.3681	.4645	.9663	.2038-01	.2572-01	2.258	15.17	572.5
231	209.80	.50000-01	699.00	.5531	3863	.5041	.9613	.2139-01	.2791-01	2.423	15.23	570.0
231	209.80	.70000-01	700.00	.5471	3480	.5181	.9547	.1927-01	.2875-01	1.810	11.98	589.4
231	209.80	.10000+00	701.00	.3477	.2395	3600	.9462	.1325-01	.1993-01	1.456	9.160	573.5
231	209.80	.15000	702.00	.1873	.1291	.2150	.9357	.7149-02	.1190-01	.7860	5.543	573.3
231	209.80	.20000	703.00	.9320-01	.6866-01	.1092	.9296	.3801-02	.6045-02	.4920	3.268	553.8
231	209.80	.30000	704.00	.5500-01	.4010-01	.6580-01	.9278	.2223-02	.3642-02	.2810	1.983	555.8
231	209.80	.37500	706.00	.1273	.9120-01	.1543	.9278	.5051-02	.8544-02	.6090	4.150	562.7
231	209.80	.50000	707.00	.1879	.1271	.2384	.9278	.7037-02	.1320-01	.7430	5.007	577.7
231	209.80	.60000	708.00	.7440-01	.5340-01	.9020-01	.9278	.2956-02	.4997-02	.3570	2.256	562.6
231	209.80	.70000	709.00	.5080-01	.3520-01	.6310-01	.9278	.1951-02	.3496-02	.2180	1.371	571.7
231	209.80	.80000	710.00	.4830-01	.3410-01	.5890-01	.9278	.1889-02	.3362-02	.2210	1.366	566.1
231	209.80	.87000	711.00	.8300-01	.5630-01	.1050	.9278	.3120-02	.5815-02	.3320	2.056	576.9
231	217.70	.15000-01	713.00	.2304	.1588	.2749	.9278	.9347-02	.1522-01	1.195	8.182	555.5
231	217.70	.30000-01	714.00	.4741	.3301	.4209	.9645	.1828-01	.2331-01	2.057	13.82	570.8
231	217.70	.70000-01	716.00	.6416	.3926	.6177	.9531	.2174-01	.3421-01	1.915	12.75	595.2
231	217.70	.10000+00	717.00	.4142	.2822	.4354	.9448	.1553-01	.2411-01	1.675	10.70	576.1
231	217.70	.15000	718.00	.2169	.1447	.2559	.9347	.8012-02	.1417-01	.8220	5.916	580.7
231	217.70	.20000	719.00	.1157	.8510-01	.1382	.9292	.4711-02	.7652-02	.5330	3.978	557.4
231	217.70	.30000	720.00	.5590-01	.4080-01	.6680-01	.9279	.2259-02	.3700-02	.2850	2.036	556.7
231	217.70	.35000	721.00	.9440-01	.6910-01	.1127	.9278	.3528-02	.6239-02	.4690	3.372	555.6
231	217.70	.37500	722.00	.1070	.7790-01	.1284	.9278	.4312-02	.7110-02	.5410	3.726	557.9
231	217.70	.50000	723.00	.1687	.1166	.2105	.9278	.6457-02	.1166-01	.7140	4.872	572.7
231	217.70	.70000	725.00	.1068	.7470-01	.1320	.9278	.4134-02	.7310-02	.4690	2.950	569.7
231	217.70	.80000	726.00	.6470-01	.4610-01	.7890-01	.9278	.2554-02	.4358-02	.3030	1.889	564.5
231	217.70	.87000	727.00	.1026	.7030-01	.1289	.9278	.3894-02	.7137-02	.4230	2.665	574.7
231	217.70	.92600	728.00	.9000-01	.5710-01	.1208	.9278	.3163-02	.6691-02	.2960	2.106	589.7

IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = 5.000 BETA = .0000 GRIT = 6.000 RN/L = 5.000

•••TEST CONDITIONS•••

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
234	3.510	4.788	4.960	.0000	.0000	57.00	.7370	681.0	196.7	6.353	2412.	.3143-03
235	3.510	4.785	4.970	.0000	.0000	57.00	.7360	681.0	196.7	6.350	2412.	.3141-03
236	3.510	4.787	4.970	.0000	.0000	57.00	.7370	681.0	196.7	6.352	2412.	.3142-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
234	.1583-06	.5538-01	.9289-02
235	.1583-06	.5536-01	.9292-02
236	.1583-06	.5537-01	.9291-02

•••TEST DATA•••

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H'TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
235	.00000	.30000-02	730.00	.4425	.2926	.3361	.9809	.1620-01	.1861-01	1.628	10.99	580.7
235	.00000	.10300-01	731.00	.2011	.1478	.2392	.9284	.8185-02	.1319-01	1.052	7.225	552.7
235	.00000	.15000-01	732.00	.1851	.1377	.2173	.9284	.7624-02	.1203-01	1.014	6.896	548.2
235	.00000	.20000-01	733.00	.2606	.1886	.2158	.9772	.1044-01	.1195-01	1.287	8.786	558.0
235	.00000	.25000-01	734.00	.5220	.3410	.4124	.9751	.1888-01	.2283-01	1.855	12.39	583.0
235	.00000	.30000-01	735.00	.8087	.4628	.5998	.9733	.2562-01	.3321-01	2.041	13.59	601.6
235	.00000	.40000-01	737.00	.6410	.4098	.5150	.9717	.2269-01	.2851-01	2.143	13.70	586.8
235	.00000	.45000-01	738.00	.6377	.4076	.5210	.9698	.2257-01	.2885-01	2.131	13.83	586.8
235	.00000	.60000-01	739.00	.5346	.3214	.4487	.9644	.1779-01	.2484-01	1.520	9.968	595.8
235	.00000	.70000-01	740.00	.5333	.3245	.4672	.9610	.1796-01	.2586-01	1.563	10.32	594.2
235	.00000	.80000-01	741.00	.4741	.2931	.4328	.9577	.1623-01	.2396-01	1.448	10.29	592.0
235	.00000	.10000+00	742.00	.3589	.2412	.3530	.9517	.1335-01	.1954-01	1.387	9.123	577.4
235	.00000	.12500	743.00	.2509	.1639	.2646	.9451	.9074-02	.1465-01	.8910	6.365	583.0
235	.00000	.15000	744.00	.2011	.1372	.2227	.9395	.7597-02	.1233-01	.8150	5.591	573.9
235	.00000	.17500	745.00	.1475	.1030	.1694	.9351	.5701-02	.9379-02	.6430	4.780	568.4
235	.00000	.20000	746.00	.1165	.8360-01	.1363	.9317	.4626-02	.7545-02	.5570	3.955	560.9
235	.00000	.21500	747.00	.9860-01	.7060-01	.1170	.9301	.3906-02	.6480-02	.4680	3.221	561.4
235	.00000	.23000	748.00	.8230-01	.5880-01	.9900-01	.9290	.3255-02	.5478-02	.3880	2.847	562.0

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F39)

IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
235	.00000	.24000	749.00	.7490-01	.5370-01	.9020-01	.9284	.2972-02	.4996-02	.3580	2.679	560.9
235	.00000	.25000	750.00	.4030-01	.2920-01	.4830-01	.9284	.1616-02	.2671-02	.1990	1.603	557.9
235	.00000	.30000	751.00	.7540-01	.5450-01	.9040-01	.9284	.3016-02	.5003-02	.3700	2.414	558.5
235	.00000	.40000	753.00	.7930-01	.5790-01	.9440-01	.9284	.3203-02	.5226-02	.4030	2.582	555.3
235	.00000	.60000	755.00	.7300-01	5270-01	.8750-01	.9284	.2917-02	.4846-02	.3570	2.276	558.8
235	.00000	.70000	756.00	.6480-01	.4570-01	.7890-01	.9284	.2531-02	.4369-02	.2930	1.918	565.4
235	.00000	.80000	757.00	.6840-01	.4800-01	.8370-01	.9284	.2656-02	.4634-02	.3030	1.881	567.0
235	.00000	.90000	758.00	.3400-01	.2340-01	.4220-01	.9284	.1293-02	.2337-02	.1410	9010	572.1
235	55.000	.22000	759.00	.7900-01	.5710-01	.9420-01	.9288	.3162-02	.5216-02	.3890	2.880	558.1
235	55.000	.25000	760.00	.3860-01	.2810-01	.4610-01	.9280	.1558-02	.2555-02	.1960	1.526	555.6
235	55.000	.27000	761.00	.4760-01	.3430-01	.5750-01	.9280	.1897-02	.3181-02	.2310	1.705	559.7
235	55.000	.30000	762.00	.6810-01	.4960-01	.8150-01	.9280	.2747-02	.4513-02	.3440	2.061	555.9
235	55.000	.32000	763.00	.8820-01	.6380-01	.1061	.9280	.3533-02	.5871-02	.4350	2.559	558.1
235	55.000	.34000	764.00	.1080	.7780-01	.1303	.9280	.4306-02	.7211-02	.5240	3.090	559.5
235	55.000	.36000	765.00	.1181	.8480-01	.1427	.9280	.4693-02	.7901-02	.5670	3.386	560.4
235	55.000	.38000	766.00	.1405	.9870-01	.1727	.9280	.5462-02	.9563-02	.6250	3.759	566.9
235	55.000	.40000	767.00	.1803	.1239	.2253	.9280	.6862-02	.1247-01	.7480	4.616	572.2
235	67.500	.23000	768.00	.7170-01	.5210-01	.8580-01	.9281	.2886-02	.4743-02	.3600	2.665	556.5
235	67.500	.25000	769.00	.3610-01	.2630-01	.4320-01	.9279	.1458-02	.2391-02	.1840	1.423	555.3
235	67.500	.27000	770.00	.5280-01	.3820-01	.6350-01	.9279	.2115-02	.3513-02	.2610	1.894	557.8
235	67.500	.29000	771.00	.5230-01	.3810-01	.6270-01	.9279	.2107-02	.3473-02	.2630	1.623	556.3
235	67.500	.30000	772.00	.9250-01	.6630-01	.1121	.9279	.3670-02	.6206-02	.4410	2.676	561.0
235	67.500	.31000	773.00	.1047	.7480-01	.1272	.9279	.4143-02	.7042-02	.4940	2.974	561.9
235	67.500	.32000	774.00	.1188	.8440-01	.1450	.9279	.4674-02	.8025-02	.5500	3.279	563.6
235	67.500	.32500	775.00	.1198	.8460-01	.1468	.9279	.4686-02	.8130-02	.5430	3.246	565.3
235	67.500	.33000	776.00	.1383	.9850-01	.1710	.9279	.5342-02	.9465-02	.6020	3.602	568.5
235	67.500	.33500	777.00	.1573	.1080	.1971	.9279	.5978-02	.1091-01	.6500	3.876	572.6
235	67.500	.34000	778.00	.1730	.1180	.2180	.9279	.6533-02	.1207-01	.7000	4.172	574.1
235	67.500	.34500	779.00	.1876	.1257	.2397	.9279	.6960-02	.1327-01	.7190	4.290	578.0
235	67.500	.35000	780.00	.1886	.1262	.2414	.9279	.6986-02	.1336-01	.7190	4.303	578.3
235	67.500	.36000	782.00	.2017	.1357	.2570	.9279	.7512-02	.1423-01	.7820	4.692	577.2
235	67.500	.36500	783.00	.1673	.1280	.2356	.9279	.7085-02	.1304-01	.7620	4.571	573.7
235	67.500	.37000	784.00	.1762	.1216	.2200	.9279	.6729-02	.1218-01	.7390	4.460	571.4
235	67.500	.37500	785.00	.1742	.1202	.2173	.9279	.6656-02	.1203-01	.7320	4.457	571.2
235	67.500	.38000	786.00	.1676	.1158	.2090	.9279	.6410-02	.1157-01	.7060	4.311	571.1
235	67.500	.39000	787.00	.1507	.1047	.1870	.9279	.5796-02	.1035-01	.6470	3.962	569.6
235	67.500	.40000	788.00	.1243	.8750-01	.1527	.9279	.4842-02	.8456-02	.5570	3.444	566.3
235	67.500	.50000	789.00	.7210-01	.5120-01	.8800-01	.9279	.2835-02	.4875-02	.3330	2.115	563.9
235	67.500	.60000	790.00	.8440-01	.5980-01	.1032	.9279	.3310-02	.5715-02	.3870	2.514	564.5
236	67.500	.70000	791.00	.8890-01	.6110-01	.1113	.9279	.3381-02	.6159-02	.3680	2.567	572.3
236	67.500	.80000	792.00	.7950-01	.5520-01	.9890-01	.9279	.3054-02	.5474-02	.3390	2.108	570.1
236	67.500	.90000	793.00	.2080-01	.1370-01	.2700-01	.9279	.7575-03	.1496-02	.7500-01	.4780	581.7
236	78.000	.27000	794.00	.4950-01	.3590-01	.5940-01	.9278	.1987-02	.3290-02	.2470	1.751	557.0

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F39)

IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
236	78.000	.29000	795.00	.8090-01	.5780-01	.9840-01	.9278	.3201-02	.5445-02	.3820	2.336	561.9
236	78.000	.30000	796.00	.1467	.1027	.1810	.9278	.5686-02	.1002-01	.6460	3.875	567.6
236	78.000	.31000	797.00	.1866	.1248	.2377	.9278	.6911-02	.1316-01	.7150	4.270	577.7
236	78.000	.32000	798.00	.2284	.1484	.3002	.9278	.8215-02	.1662-01	.7990	4.727	584.0
236	78.000	.32500	799.00	.2487	.1607	.3285	.9278	.8899-02	.1819-01	.8570	5.082	585.0
236	78.000	.33000	800.00	.2815	.1783	.3787	.9278	.9871-02	.2097-01	.9170	5.429	588.3
236	78.000	.33500	801.00	.3137	.1962	.4271	.9278	.1086-01	.2365-01	.9880	5.846	590.3
236	78.000	.34000	802.00	.3031	.1903	.4111	.9278	.1054-01	.2276-01	.9640	5.707	589.7
236	78.000	.34500	803.00	.2791	.1826	.3645	.9278	.1011-01	.2018-01	.9960	5.930	582.7
236	78.000	.35000	804.00	.2575	.1726	.3294	.9278	.9556-02	.1824-01	.9870	5.890	578.0
236	78.000	.35500	805.00	.2374	.1630	.2977	.9278	.9025-02	.1648-01	.9810	5.868	572.6
236	78.000	.36000	806.00	.2252	.1548	.2820	.9278	.8573-02	.1561-01	.9350	5.610	572.2
236	78.000	.37000	809.00	.1635	.1137	.2029	.9278	.6298-02	.1123-01	.7050	4.259	569.3
236	78.000	.37500	809.00	.1536	.1074	.1899	.9278	.5947-02	.1051-01	.6730	4.071	568.0
236	78.000	.38000	810.00	.1339	.9480-01	.1639	.9278	.5248-02	.9077-02	.6120	3.726	564.7
236	78.000	.39000	811.00	.1154	.8240-01	.1402	.9278	.4564-02	.7765-02	.5440	3.329	562.0
236	78.000	.40000	812.00	.3094	.1882	.4332	.9278	.1042-01	.2399-01	.9060	5.452	594.3
236	90.000	.24000	814.00	.5040-01	.3680-01	.6030-01	.9278	.2039-02	.3337-02	.2580	2.077	554.8
236	90.000	.27000	816.00	.4220-01	.3090-01	.5030-01	.9278	.1714-02	.2787-02	.2190	1.550	553.6
236	90.000	.29000	817.00	.1476	.1006	.1862	.9278	.5570-02	.1031-01	.5960	3.651	574.3
236	90.000	.30000	818.00	.2533	.1606	.3406	.9278	.8892-02	.1886-01	.8270	4.954	588.2
236	90.000	.31000	819.00	.2649	.1694	.3533	.9278	.9379-02	.1956-01	.8860	5.266	586.7
236	90.000	.32000	820.00	.2812	.1812	.3726	.9278	.1003-01	.2063-01	.9600	5.695	585.5
236	90.000	.32500	821.00	.3037	.1923	.4090	.9278	.1065-01	.2265-01	.9880	5.835	588.4
236	90.000	.33000	822.00	.3464	.2113	.4838	.9278	.1170-01	.2679-01	1.021	6.030	593.9
236	90.000	.34000	824.00	.3586	.2259	.4851	.9278	.1251-01	.2686-01	1.151	6.795	589.2
236	90.000	.34500	825.00	.3821	.2384	.5218	.9278	.1320-01	.2889-01	1.195	7.069	590.7
236	90.000	.35000	826.00	.4992	.2661	.8170	.9278	.1473-01	.4523-01	1.075	6.301	608.3
236	90.000	.36000	828.00	.3891	.2131	.6144	.9278	.1180-01	.3402-01	.8880	5.201	605.9
236	90.000	.36500	829.00	.2791	.1802	.3689	.9278	.9977-02	.2043-01	.9590	5.689	585.1
236	90.000	.37000	830.00	.1889	.1307	.2355	.9278	.7238-02	.1304-01	.8000	4.794	570.7
236	90.000	.37500	831.00	.1334	.9440-01	.1634	.9278	.5226-02	.9046-02	.6090	3.677	564.7
236	90.000	.38000	832.00	.8890-01	.6480-01	.1065	.9278	.3586-02	.5898-02	.4500	2.730	555.8
236	90.000	.39000	833.00	.6900-01	.5090-01	.8200-01	.9278	.2821 02	.4538-02	.3670	2.254	551.2
236	90.000	.40000	834.00	.7540-01	.5550-01	.8970-01	.9278	.3075-02	.4965-02	.3970	2.450	552.0
236	90.000	.50000	835.00	.4710-01	.3390-01	.5680-01	.9278	.1878-02	.3146-02	.2290	1.439	559.2
236	90.000	.60000	836.00	.6000-01	.4340-01	.7220-01	.9278	.2403-02	.3996-02	.2960	1.964	557.9
236	90.000	.70000	837.00	.8300-01	.5800-01	.1026	.9278	.3211-02	.5678-02	.3630	2.532	568.0
236	90.000	.80000	838.00	.9680-01	.6830-01	.1187	.9278	.3784-02	.6573-02	.4390	2.701	565.3
236	90.000	.90000	839.00	.1111	.7460-01	.1420	.9278	.4131-02	.7861-02	.4280	2.695	577.6
236	112.50	.23000	840.00	.4630-01	.3400-01	.5500-01	.9278	.1883-02	.3048-02	.2420	1.948	552.5
236	112.50	.25000	841.00	.2740-01	.2030-01	.3240-01	.9278	.1122-02	.1796-02	.1470	1.137	550.3
236	112.50	.30000	843.00	.7520-01	.5510-01	.8970-01	.9278	.3049-02	.4966-02	.3880	2.303	553.8

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F39)

(IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
236	112.50	.33000	844.00	.1605	.1136	.1964	.9278	.6290-02	.1088-01	.7340	4.385	564.6
236	112.50	.35000	845.00	.1472	.1048	.1793	.9278	.5805-02	.9926-02	.6880	4.181	562.8
236	112.50	.37000	846.00	.1037	.7560-01	.1242	.9278	.4184-02	.6878-02	.5250	3.224	555.7
236	112.50	.40000	847.00	.4380-01	.3270-01	.5160-01	.9278	.1810-02	.2859-02	.2430	1.511	547.2
236	112.50	.45000	848.00	.3020-01	.2250-01	.3550-01	.9278	.1248-02	.1967-02	.1680	1.056	546.7
236	112.50	.50000	849.00	.1850-01	.1360-01	.2200-01	.9278	.7510-03	.1219-02	.9600-01	.6170	553.1
236	112.50	.55000	850.00	.1550-01	.1140-01	.1850-01	.9278	.6290-03	.1025-02	.8000-01	.5330	553.9
236	112.50	.60000	951.00	.6110-01	.4430-01	.7340-01	.9278	.2455-02	.4065-02	.3050	2.033	557.0
236	112.50	.65000	852.00	.1064	.7570-01	.1298	.9278	.4189-02	.7188-02	.4940	3.332	563.3
236	112.50	.70000	853.00	.9080-01	.6400-01	.1116	.9278	.3542-02	.6179-02	.4080	2.837	566.0
236	112.50	.75000	854.00	.6010-01	.4250-01	.7360-01	.9278	.2353-02	.4074-02	.2740	1.761	564.8
236	112.50	.80000	855.00	.6280-01	.4470-01	.7660-01	.9278	.2477-02	.4240-02	.2930	1.890	563.0
236	112.50	.90000	856.00	.9610-01	.6500-01	.1219	.9278	.3600-02	.6751-02	.3790	2.425	575.8
236	125.40	.84000	857.00	.9620-01	.6750-01	.1185	.9278	.3735-02	.6564-02	.4260	2.607	567.1
236	125.40	.85000	858.00	.9240-01	.6490-01	.1139	.9278	.3593-02	.6308-02	.4100	2.525	567.0
236	125.40	.86000	859.00	.6880-01	.4830-01	.8480-01	.9278	.2674-02	.4694-02	.3060	1.896	566.9
236	125.40	.87000	860.00	.6910-01	.4840-01	.8530-01	.9278	.2679-02	.4725-02	.3040	1.892	567.7
236	125.40	.88000	861.00	.8250-01	.5750-01	.1023	.9278	.3183-02	.5667-02	.3570	2.221	569.0
236	125.40	.89000	862.00	.9050-01	.6240-01	.1132	.9278	.3452-02	.6267-02	.3780	2.350	571.7
236	125.40	.90000	863.00	.8120-01	.5570-01	.1018	.9278	.3085-02	.5636-02	.3350	2.103	572.6
236	125.40	.91000	864.00	.5430-01	.3750-01	.6770-01	.9278	.2077-02	.3749-02	.2290	1.645	571.0
236	125.40	.92600	865.00	.7500-01	.4970-01	.9690-01	.9278	.2754-02	.5365-02	.2780	1.984	580.2
236	129.30	.80000	866.00	.5640-01	.4020-01	.6880-01	.9278	.2226-02	.3809-02	.2630	1.642	562.9
236	129.30	.81000	867.00	.5800-01	.4120-01	.7070-01	.9278	.2282-02	.3916-02	.2690	1.667	563.4
236	129.30	.82000	868.00	.5950-01	.4230-01	.7270-01	.9278	.2340-02	.4024-02	.2750	1.704	563.7
236	129.30	.83000	869.00	.6820-01	.4800-01	.8390-01	.9278	.2657-02	.4646-02	.3050	1.894	566.4
236	135.00	.40000-01	870.00	.3865	.2674	.3631	.9572	.1480-01	.2010-01	1.636	10.40	570.7
236	135.00	.50000-01	871.00	.4277	.2942	.4132	.9539	.1629-01	.2288-01	1.776	11.21	572.2
236	135.00	.70000-01	873.00	.3942	.2562	.4036	.9478	.1419-01	.2235-01	1.380	9.217	583.9
236	135.00	.10000+00	875.00	.2102	.1471	.2292	.9403	.8146-02	.1269-01	.9250	6.007	567.7
236	135.00	.15000	876.00	.1297	.9200-01	.1523	.9319	.5094-02	.8432-02	.5970	4.332	564.0
236	135.00	.20000	877.00	.7180-01	.5260-01	.8550-01	.9281	.2914-02	.4735-02	.3710	2.492	553.9
236	135.00	.35000	878.00	.6450-01	.4750-01	.7680-01	.9278	.2628-02	.4251-02	.3390	2.098	552.4
236	135.00	.40000	879.00	.8660-01	.6300-01	.1039	.9278	.3487-02	.5750-02	.4360	2.748	556.3
236	135.00	.50000	880.00	.7600-01	.5470-01	.9240-01	.9278	.3006-02	.5115-02	.3580	2.443	562.0
236	135.00	.55000	881.00	.7470-01	.5330-01	.9090-01	.9278	.2948-02	.5033-02	.3500	2.314	562.5
236	135.00	.60000	882.00	.7380-01	.5300-01	.8930-01	.9278	.2936-02	.4944-02	.3560	2.375	560.1
236	135.00	.65000	883.00	.7640-01	.5460-01	.9280-01	.9278	.3022-02	.5140-02	.3610	2.443	561.9
236	135.00	.70000	884.00	.6580-01	.4700-01	.8010-01	.9278	.2605-02	.4433-02	.3110	2.191	562.0
236	135.00	.75000	885.00	.6110-01	.4320-01	.7490-01	.9278	.2392-02	.4145-02	.2780	1.738	564.9
236	135.00	.80000	886.00	.5040-01	.3600-01	.6130-01	.9278	.1992-02	.3392-02	.2370	1.480	562.1
236	135.00	.84000	887.00	.7590-01	.5980-01	.9460-01	.9130	.2678-02	.4234-02	.0000	.0000	244.7
234	180.00	.40000-01	600.00	.3782	.2651	.3625	.9551	.1468-01	.2006-01	1.672	10.64	567.3

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F39)

IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWGT DEG. R /SEC	TW DEG. R
234	180.00	.50000-01	601.00	.3813	.2657	.3755	.9518	.1471-01	.2079-01	1.652	10.54	568.9
234	180.00	.60000-01	602.00	.3254	.2199	.3293	.9488	.1218-01	.1824-01	1.279	8.395	576.2
234	180.00	.70000-01	603.00	.3638	.2413	.3795	.9459	.1336-01	.2101-01	1.351	9.068	580.1
234	180.00	.80000-01	604.00	.3277	.2193	.3508	.9433	.1214-01	.1943-01	1.251	8.010	578.2
234	180.00	.10000+00	605.00	.1710	.1219	.1880	.9388	.6748-02	.1041-01	.8000	5.695	562.7
234	180.00	.15000	606.00	.1026	.7370-01	.1206	.9310	.4082-02	.6677-02	.4940	3.567	560.2
234	180.00	.20000	607.00	.6300-01	.4650-01	.7470-01	.9279	.2573-02	.4135-02	.3350	2.177	551.2
234	180.00	.21000	608.00	.5320-01	.3930-01	.6300-01	.9278	.2178-02	.3491-02	.2850	1.965	550.4
234	180.00	.22000	609.00	.4320-01	.3190-01	.5130-01	.9278	.1769-02	.2841-02	.2310	1.712	550.9
234	180.00	.30000	610.00	.5080-01	.3740-01	.6050-01	.9278	.2070-02	.3348-02	.2670	1.819	552.5
234	180.00	.35000	611.00	.5580-01	.4130-01	.6610-01	.9278	.2286-02	.3658-02	.3000	1.995	550.0
234	180.00	.36000	612.00	.5820-01	.4290-01	.6910-01	.9278	.2378-02	.3824-02	.3090	2.073	551.2
234	180.00	.37500	614.00	.6480-01	.4750-01	.7740-01	.9278	.2629-02	.4284-02	.3350	2.241	553.9
234	180.00	.38000	615.00	.6130-01	.4480-01	.7330-01	.9278	.2481-02	.4062-02	.3130	2.099	554.5
234	180.00	.38500	616.00	.7330-01	.5330-01	.8790-01	.9278	.2953-02	.4870-02	.3690	2.468	556.3
234	180.00	.39000	617.00	.8310-01	.6020-01	.1000+00	.9278	.3334-02	.5536-02	.4120	2.746	557.6
234	180.00	.39500	618.00	.8720-01	.6270-01	.1054	.9278	.3474-02	.5838-02	.4220	2.827	559.7
234	180.00	.40000	619.00	.1045	.7450-01	.1272	.9278	.4125-02	.7043-02	.4900	3.255	562.5
234	180.00	.40500	620.00	.1195	.8450-01	.1465	.9278	.4677-02	.8114-02	.5430	3.616	565.1
234	180.00	.41000	621.00	.1453	.1014	.1799	.9278	.5617-02	.9963-02	.6330	4.211	568.5
234	180.00	.41500	622.00	.1847	.1272	.2311	.9278	.7046-02	.1280-01	.7710	5.103	571.8
234	180.00	.42500	624.00	.2481	.1633	.3225	.9278	.9043-02	.1786-01	.9010	5.934	581.6
234	180.00	.43000	625.00	.2995	.1929	.3970	.9278	.1068-01	.2198-01	1.022	6.737	585.6
234	180.00	.44000	626.00	.3437	.2150	.4681	.9278	.1151-01	.2471-01	1.060	7.038	590.3
234	180.00	.44500	627.00	.3299	.2079	.4462	.9278	.9796-02	.1957-01	.9650	6.427	589.2
234	180.00	.45000	628.00	.2704	.1769	.3534	.9278	.7918-02	.1452-01	.8560	5.821	582.7
234	180.00	.45500	629.00	.2087	.1430	.2623	.9278	.6144-02	.1072-01	.7080	4.712	573.1
234	180.00	.46000	630.00	.1575	.1110	.1936	.9278	.3712-02	.6225-02	.4520	3.020	56E.0
234	180.00	.47000	631.00	.9300-01	.6700-01	.1124	.9278	.2901-02	.4831-02	.3570	2.401	559.4
234	180.00	.48000	632.00	.7240-01	.5240-01	.8720-01	.9278	.3286-02	.5565-02	.3950	2.673	558.1
234	180.00	.49000	633.00	.8280-01	.5930-01	.1005	.9278	.3927-02	.6866-02	.4510	3.126	561.1
234	180.00	.50000	634.00	.1008	.7090-01	.1240	.9278	.5317-02	.9220-02	.6180	3.947	566.3
234	180.00	.60000	636.00	.1358	.9600-01	.1665	.9278	.4840-02	.8267-02	.5740	3.684	565.1
234	180.00	.65000	637.00	.1226	.8740-01	.1493	.9278	.3807-02	.6549-02	.4470	3.035	562.6
234	180.00	.70000	638.00	.9680-01	.6870-01	.1183	.9278	.1383-02	.2332-02	.1670	1.070	563.8
234	180.00	.75000	639.00	.3480-01	.2500-01	.4210-01	.9278	.2005-02	.3412-02	.2390	1.488	560.4
234	180.00	.80000	640.00	.5070-01	.3620-01	.6160-01	.9278	.3142-02	.5610-02	.3510	2.195	561.9
234	180.00	.85000	641.00	.8160-01	.5670-01	.1013	.9278	.3864-02	.7014-02	.4230	2.679	569.4
234	180.00	.86000	642.00	.1013	.6980-01	.1267	.9278	.4432-02	.8216-02	.4730	3.010	571.7
234	180.00	.87000	643.00	.1175	.8000-01	.1484	.9278	.4299-02	.8094-02	.4510	2.891	574.4
234	180.00	.88000	644.00	.1150	.7760-01	.1462	.9278	.4702-02	.9040-02	.4820	3.122	576.3
234	180.00	.89000	645.00	.1272	.8490-01	.1632	.9278	.4010-02	.7629-02	.4160	2.752	578.7
234	180.00	.90000	646.00	.1078	.7240-01	.1378	.9278					577.5

DATE 03 JUN 76

AEDC V41A-A4A (1H-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F39)

1H41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
234	180.00	.95000	649.00	.3600-01	.2520-01	.4450-01	.9278	.1395-02	.2463-02	.1580	1.131	567.8
234	191.25	.35000	650.00	.5760-01	.4260-01	.6830-01	.9278	.2356-02	.3783-02	.3070	2.062	550.8
234	191.25	.36000	651.00	.6760-01	.4990-01	.8010-01	.9278	.2765-02	.4438-02	.3610	2.427	550.8
234	191.25	.37000	652.00	.6890-01	.5080-01	.8190-01	.9278	.2811-02	.4535-02	.3640	2.438	551.9
234	191.25	.37500	653.00	.7390-01	.5420-01	.8820-01	.9278	.3000-02	.4882-02	.3830	2.572	553.6
234	191.25	.38000	654.00	.7640-01	.5600-01	.9110-01	.9278	.3103-02	.5045-02	.3970	2.664	553.5
234	191.25	.38500	655.00	.8010-01	.5850-01	.9590-01	.9278	.3239-02	.5306-02	.4090	2.746	555.0
234	191.25	.39000	656.00	.8730-01	.6330-01	.1051	.9278	.3504-02	.5820-02	.4330	2.903	557.6
234	191.25	.39500	657.00	.9960-01	.7180-01	.1203	.9278	.3975-02	.6663-02	.4850	3.247	559.3
234	191.25	.40000	658.00	.1125	.8020-01	.1370	.9278	.4442-02	.7588-02	.5270	3.536	562.6
234	191.25	.40500	659.00	.1336	.9420-01	.1641	.9278	.5214-02	.9090-02	.6010	4.028	565.9
234	191.25	.41000	660.00	.1569	.1098	.1939	.9278	.6079-02	.1074-01	.6890	4.596	567.9
234	191.25	.41500	661.00	.1730	.1203	.2149	.9278	.6660-02	.1190-01	.7440	4.945	569.5
234	191.25	.42000	662.00	.2291	.1529	.2941	.9278	.8467-02	.1628-01	.8680	5.756	578.8
234	191.25	.42500	663.00	.2737	.1779	.3596	.9278	.9851-02	.1992-01	.9590	6.365	583.9
234	191.25	.43000	664.00	.3343	.2051	.4642	.9278	.1136-01	.2571-01	1.001	6.673	593.1
234	191.25	.44000	665.00	.3596	.2260	.4875	.9278	.1252-01	.2699-01	1.148	7.621	589.5
234	191.25	.45000	666.00	.2761	.1839	.3552	.9278	.1018-01	.1967-01	1.038	6.930	579.2
234	191.25	.45500	667.00	.2548	.1703	.3267	.9278	.9430-02	.1809-01	.9690	6.468	578.5
234	191.25	.46000	668.00	.2339	.1576	.2980	.9278	.8728-02	.1650-01	.9110	6.107	576.8
234	191.25	.47000	669.00	.1928	.1320	.2424	.9278	.7310-02	.1342-01	.7890	5.315	573.3
234	191.25	.48000	670.00	.1709	.1191	.2118	.9278	.6596-02	.1173-01	.7420	5.005	568.8
234	191.25	.49000	671.00	.1461	.1027	.1799	.9278	.5686-02	.9964-02	.6510	4.388	566.7
234	191.25	.50000	672.00	.1422	.9990-01	.1762	.9278	.5484-02	.9759-02	.6160	4.233	569.0
234	191.25	.60000	673.00	.1084	.7800-01	.1311	.9278	.4317-02	.7258-02	.5240	3.338	559.8
234	191.25	.70000	674.00	.1424	.9850-01	.1775	.9278	.5457-02	.9827-02	.6040	4.057	570.6
234	.31.25	.85000	676.00	.6940-01	.4850-01	.8570-01	.9278	.2686-02	.4747-02	.3040	1.903	567.9
234	191.25	.86000	677.00	.8480-01	.5860-01	.1058	.9278	.3243-02	.5851-02	.3570	2.254	571.1
234	191.25	.87000	678.00	.9990-01	.6830-01	.1257	.9278	.3781-02	.6961-02	.4070	2.590	573.6
234	191.25	.88000	679.00	.1218	.8200-01	.1553	.9278	.4542-02	.8597-02	.4740	3.043	577.0
234	191.25	.89000	680.00	.1348	.8970-01	.1736	.9278	.4965-02	.9615-02	.5050	3.290	579.5
234	191.25	.90000	681.00	.1266	.8370-01	.1640	.9278	.4635-02	.9081-02	.4660	3.086	580.8
234	191.25	.91000	682.00	.8200-01	.5470-01	.1054	.9278	.3032-02	.5834-02	.3100	2.228	578.8
234	191.25	.92600	683.00	.7870-01	.5040-01	.1050	.9278	.2790-02	.5813-02	.2640	1.893	586.6
234	191.25	.95000	684.00	.2300-01	.1620-01	.2820-01	.9278	.8955-03	.1564-02	.1030	.7370	566.1
234	197.00	.33000	685.00	.6370-01	.4710-01	.7540-01	.9278	.2611-02	.4176-02	.3430	2.299	550.0
234	197.00	.34000	686.00	.5860-01	.4340-01	.6930-01	.9278	.2403-02	.3840-02	.3160	2.120	549.8
234	197.00	.35000	687.00	.6660-01	.4930-01	.7880-01	.9278	.2732-02	.4364-02	.3590	2.410	549.8
234	197.00	.36000	688.00	.7060-01	.5200-01	.8380-01	.9278	.2879-02	.4643-02	.3730	2.499	551.8
234	197.00	.37000	689.00	.7700-01	.5660-01	.9190-01	.9278	.3133-02	.5082-02	.4020	2.693	553.0
234	197.00	.37500	690.00	.8520-01	.6190-01	.1022	.9278	.3429-02	.5659-02	.4280	2.571	556.4
234	197.00	.50000	691.00	.2229	.1431	.2953	.9278	.7926-02	.1641-01	.7540	4.971	586.1
234	197.00	.60000	692.00	.1058	.7570-01	.1284	.9278	.4190-02	.7112-02	.5020	3.212	561.5

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F39)

IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
234	197.00	.70000	693.00	.2061	.1366	.2662	.9278	.7563-02	.1474-01	.7640	5.095	580.2
234	197.00	.80000	694.00	.6030-01	.4320-01	.7320-01	.9278	.2390-02	.4051-02	.2870	1.789	561.3
234	197.00	.87000	695.00	.9820-01	.6690-01	.1238	.9278	.3707-02	.6855-02	.3970	2.496	574.1
234	197.00	.92600	696.00	.1291	.8320-01	.1709	.9278	.4608-02	.9464 02	.4420	3.172	585.4
236	209.80	.15000-01	697.00	.2561	.1852	.3071	.9283	.1024-01	.1696-01	.0000	.0000	539.9
235	209.80	.30000-01	698.00	.4049	.2801	.3796	.9575	.1551-01	.2102-01	1.713	11.52	570.7
235	209.80	.50000-01	699.00	.4204	.2915	.4105	.9527	.1614-01	.2273-01	1.793	11.27	570.1
235	209.80	.70000-01	700.00	.4848	.2975	.5054	.9468	.1647-01	.2798-01	1.452	9.592	593.1
235	209.80	.10000+00	701.00	.2052	.1454	.2247	.9395	.8047-02	.1244-01	.9400	5.940	564.4
235	209.80	.15000	702.00	.1170	.8250-01	.1386	.9313	.4570-02	.7674-02	.5280	3.744	565.6
235	209.80	.20000	703.00	.6000-01	.4450-01	.7080-01	.9280	.2464-02	.3920-02	.3260	2.166	549.1
235	209.80	.30000	704.00	.4330-01	.3200-01	.5140-01	.9278	.1770-02	.2848-02	.2300	1.627	551.2
235	209.80	.37500	706.00	.8880-01	.6450-01	.1066	.9278	.3573-02	.5904-02	.4450	3.043	556.6
235	209.80	.50000	707.00	.1850	.1265	.2328	.9278	.7002-02	.1289-01	.7540	5.092	573.6
235	209.80	.60000	708.00	.8600-01	.6250-01	.1032	.9278	.3457-02	.5716-02	.4300	2.730	556.8
235	209.80	.70000	709.00	.9670-01	.6790-01	.1190	.9278	.3761-02	.6587-02	.4310	2.721	566.6
235	209.80	.80000	710.00	.5700-01	.4080-01	.6320-01	.9278	.2258-02	.3832-02	.2700	1.673	561.5
235	209.80	.87000	711.00	.8080-01	.5570-01	.1010	.9278	.3084-02	.5580-02	.3380	2.113	571.5
235	209.80	.92600	712.00	.8930-01	.5850-01	.1165	.9278	.3241-02	.6448-02	.3210	2.289	582.3
235	217.70	.15000-01	713.00	.1664	.1220	.1984	.9278	.6753-02	.1099-01	.8620	5.917	553.6
235	217.70	.30000-01	714.00	.3785	.2623	.3533	.9580	.1452-01	.1956-01	1.611	10.83	570.3
235	217.70	.50000-01	715.00	.4261	.2963	.4143	.9533	.1640-01	.2293-01	1.834	11.83	569.4
235	217.70	.70000-01	716.00	.4569	.2782	.5735	.9473	.1540-01	.2621-01	1.342	8.942	594.1
235	217.70	.10000+00	717.00	.2377	.1659	.2605	.9399	.9186-02	.1442-01	1.037	6.652	568.4
235	217.70	.15000	718.00	.1221	.8620-01	.1443	.9316	.4770-02	.7986-02	.5520	4.002	565.5
235	217.70	.20000	719.00	.7030-01	.5210-01	.8300-01	.9280	.2882-02	.4596-02	.3790	2.550	549.8
235	217.70	.30000	720.00	.5140-01	.3780-01	.6110-01	.9278	.2094-02	.3382-02	.2700	1.928	552.1
235	217.70	.35000	721.00	.7590-01	.5580-01	.9040-01	.9278	.3089-02	.5002-02	.3970	2.745	552.
235	217.70	.37500	722.00	.7160-01	.5260-01	.8520-01	.9278	.2914-02	.4718-02	.3750	2.590	552.6
235	217.70	.50000	723.00	.1663	.1161	.2057	.9278	.6429-02	.1139-01	.7260	4.964	568.3
235	217.70	.70000	725.00	.8050-01	.5770-01	.9770-01	.9278	.3194-02	.5408-02	.3840	2.422	561.1
235	217.70	.80000	726.00	.6130-01	.4380-01	.7460-01	.9278	.2424-02	.4130-02	.2890	1.799	562.2
235	217.70	.87000	727.00	.1028	.7110-01	.1282	.9278	.3938-02	.7099-02	.4350	2.748	570.8
235	217.70	.92600	728.00	.9990-01	.6630-01	.1289	.9278	.3670-02	.7134-02	.3720	2.659	579.9

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = 5.000 BETA = -3.000 GRIT = 6.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
237	3.510	4.781	4.930	3.000	-31.00	56.90	.7360	681.0	196.6	6.343	2412.	.3138-03
238	3.510	4.794	4.960	3.000	-31.00	57.10	.7380	681.0	196.7	6.362	2412.	.3147-03
239	3.510	4.778	4.960	3.000	-31.00	56.90	.7350	681.0	196.6	6.338	2412.	.3136-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
237	.1583-06	.5533-01	.9296-02
238	.1583-06	.5541-01	.9283-02
239	.1583-06	.5531-01	.9299-02

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
238	.00000	.30000-02	730.00	.4444	.2953	.3391	.9807	.1636-01	.1879-01	1.661	11.22	579.7
238	.00000	.10300-01	731.00	.2059	.1520	.2430	.9284	.8422-02	.1347-01	1.096	7.534	551.1
238	.00000	.15000-01	732.00	.1910	.1426	.2238	.9284	.7900-02	.1240-01	1.061	7.217	546.9
238	.00000	.20000-01	733.00	.2790	.2003	.2301	.9770	.1110-01	.1275-01	1.340	9.137	560.5
238	.00000	.25000-01	734.00	.5687	.3641	.4444	.9749	.2018-01	.2462-01	1.911	12.74	586.5
238	.00000	.30000-01	735.00	.7745	.4448	.5766	.9732	.2465-01	.3195-01	1.972	13.14	601.2
238	.00000	.40000-01	737.00	.6250	.4035	.5054	.9716	.2236-01	.2801-01	2.149	13.75	585.1
239	.00000	.45000-01	738.00	.6180	.3996	.5079	.9697	.2209-01	.2814-01	2.120	13.77	555.3
238	.00000	.60000-01	739.00	.5727	.3398	.4768	.9643	.1883-01	.2653-01	1.577	10.34	597.5
238	.00000	.70000-01	740.00	.5340	.3213	.4667	.9609	.1780-01	.2586-01	1.522	10.05	595.7
238	.00000	.80000-01	741.00	.4617	.2833	.4212	.9676	.1570-01	.2334-01	1.384	9.832	593.1
238	.00000	.10000+00	742.00	.3473	.2332	.3418	.9516	.1292-01	.1894-01	1.339	8.810	577.6
238	.00000	.12500	743.00	.2474	.1630	.2609	.9450	.9032-02	.1445-01	.9010	6.441	581.4
238	.00000	.15000	744.00	.2027	.1396	.2240	.9395	.7733-02	.1241-01	.8450	5.803	571.9
238	.00000	.17500	745.00	.1411	.9930-01	.1614	.9350	.5500-02	.8945-02	.6320	4.704	566.3
238	.00000	.20000	746.00	.1137	.8190-01	.1326	.9316	.4539-02	.7350-02	.5530	3.930	559.4
238	.00000	.21500	747.00	.1039	.7500-01	.1227	.9301	.4154-02	.6799-02	.5080	3.502	558.8
238	.00000	.23000	748.00	.8870-01	.6370-01	.1062	.9290	.3529-02	.5884-02	.4270	3.133	560.3

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F40)

IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
238	.00000	.24000	749.00	.7370-01	.5310-01	.8850-01	.9284	.2943-02	.4905-02	.3590	2.689	559.3
238	.00000	.25000	750.00	.4340-01	.3140-01	.5190-01	.9284	.1739-02	.2878-02	.2140	1.722	558.1
238	.00000	.30000	751.00	.7910-01	.5730-01	.9460-01	.9284	.3175-02	.5244-02	.3920	2.561	557.6
238	.00000	.40000	753.00	.8310-01	.6100-01	.9860-01	.9284	.3378-02	.5465-02	.4310	2.764	553.6
238	.00000	.50000	754.00	.1084	.7700-01	.1315	.9284	.4267-02	.7286-02	.5020	3.257	563.6
238	.00000	.60000	755.00	.8780-01	.6330-01	.1053	.9284	.3509-02	.5837-02	.4290	2.732	559.0
238	.00000	.70000	756.00	.1021	.7110-01	.1258	.9284	.3940-02	.6969-02	.4420	2.886	569.1
238	.00000	.80000	757.00	.1068	.7440-01	.1315	.9284	.4124-02	.7285-02	.4630	2.871	568.9
238	.00000	.90000	758.00	.6230-01	.4230-01	.7830-01	.9284	.2344-02	.4338-02	.2490	1.585	575.2
238	55.000	.22000	759.00	.9080-01	.6540-01	.1077	.9298	.3622-02	.5966-02	.4410	3.258	559.6
238	55.000	.25000	760.00	.4700-01	.3390-01	.5640-01	.9285	.1879-02	.3125-02	.2290	1.786	559.1
238	55.000	.27000	761.00	.5500-01	.3910-01	.6680-01	.9285	.2165-02	.3700-02	.2540	1.874	563.9
238	55.000	.30000	762.00	.7970-01	.5760-01	.9540-01	.9285	.3194-02	.5284-02	.3930	2.351	558.1
238	55.000	.32000	763.00	.9080-01	.6550-01	.1090	.9285	.3629-02	.6038-02	.4430	2.605	559.2
238	55.000	.34000	764.00	.1109	.7960-01	.1335	.9285	.4410-02	.7395-02	.5320	3.134	560.5
238	55.000	.36000	765.00	.1433	.1016	.1740	.9285	.5630-02	.9643-02	.6590	3.926	564.2
238	55.000	.38000	766.00	.1817	.1258	.2246	.9285	.6971-02	.1245-01	.7710	4.634	570.6
238	55.000	.40000	767.00	.1827	.1265	.2257	.9285	.7011-02	.1251-01	.7770	4.798	570.4
238	67.500	.23000	768.00	.8190-01	.5910-01	.9790-01	.9289	.3274-02	.5428-02	.4000	2.956	559.1
238	67.500	.25000	769.00	.4500-01	.3250-01	.5400-01	.9284	.1799-02	.2990-02	.2210	1.705	558.7
238	67.500	.27000	770.00	.5930-01	.4230-01	.7180-01	.9284	.2343-02	.3979-02	.2780	2.012	562.6
238	67.500	.29000	771.00	.6420-01	.4620-01	.7720-01	.9284	.2561-02	.4278-02	.3110	1.918	559.6
238	67.500	.30000	772.00	.1036	.7370-01	.1258	.9284	.4082-02	.6972-02	.4800	2.912	563.5
238	67.500	.31000	773.00	.1152	.8180-01	.1400	.9284	.4535-02	.7756-02	.5330	3.203	563.7
238	67.500	.32000	774.00	.1329	.9370-01	.1623	.9284	.5195-02	.8994-02	.6000	3.574	565.7
238	67.500	.32500	775.00	.1455	.1016	.1789	.9284	.5631-02	.9912-02	.6360	3.795	568.2
238	67.500	.33000	776.00	.1833	.1260	.2283	.9284	.6980-02	.1265-01	.7600	4.535	572.4
238	67.500	.33500	777.00	.1975	.1336	.2490	.9284	.7404-02	.1380-01	.7800	4.646	575.9
238	67.500	.34000	778.00	.2214	.1484	.2813	.9284	.8222-02	.1559-01	.8490	5.054	578.0
238	67.500	.34500	779.00	.2474	.1628	.3191	.9284	.9020-02	.1768-01	.8980	5.352	581.6
238	67.500	.35000	780.00	.2433	.1604	.3134	.9284	.8888-02	.1737-01	.8880	5.307	581.3
238	67.500	.36000	782.00	.2213	.1495	.2793	.9284	.8282-02	.1548-01	.8690	5.222	576.3
238	67.500	.36500	783.00	.2064	.1420	.2568	.9284	.7869-02	.1423-01	.8590	5.156	572.1
238	67.500	.37000	784.00	.1951	.1354	.2412	.9284	.7501-02	.1336-01	.8340	5.040	570.0
238	67.500	.37500	785.00	.1740	.1211	.2145	.9284	.6713-02	.1188-01	.7530	4.587	569.1
238	67.500	.38000	786.00	.1706	.1186	.2107	.9284	.6571-02	.1167-01	.7330	4.481	569.6
238	67.500	.39000	787.00	.1560	.1094	.1913	.9284	.6062-02	.1060-01	.6910	4.240	567.2
238	67.500	.40000	788.00	.1255	.8920-01	.1524	.9284	.4944-02	.8443-02	.5820	3.608	563.5
238	67.500	.50000	789.00	.6560-01	.4630-01	.8000-01	.9284	.2568-02	.4432-02	.2980	1.883	565.2
239	67.500	.60000	790.00	.7560-01	.5660-01	.9660-01	.9284	.3139-02	.5351-02	.3700	2.411	563.2
239	67.500	.70000	791.00	.7350-01	.5050-01	.9170-01	.9284	.2797-02	.5080-02	.3040	2.116	572.7
239	67.500	.80000	792.00	.7890-01	.5490-01	.9740-01	.9284	.3041-02	.5396-02	.3400	2.113	569.4
239	67.500	.90000	793.00	.3710-01	.2440-01	.4800-01	.9284	.1353-02	.2658-02	.1350	.8520	581.8

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F40)

IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
239	78.000	.27000	794.00	.5820-01	.4140-01	.7060-01	.9282	.2295-02	.3914-02	.2710	1.920	563.0
239	78.000	.29000	795.00	.8870-01	.6260-01	.1085	.9282	.3469-02	.6010-02	.4010	2.450	565.5
239	78.000	.30000	796.00	.1637	.1135	.2028	.9282	.6277-02	.1182-01	.6970	4.177	570.0
239	78.000	.31000	797.00	.2153	.1425	.2770	.9282	.7883-02	.1532-01	.7940	4.734	580.3
239	78.000	.32000	798.00	.2627	.1689	.3467	.9282	.9340-02	.1917-01	.8910	5.265	585.7
239	78.000	.32500	799.00	.2835	.1817	.3751	.9282	.1005-01	.2075-01	.9540	5.553	586.2
239	78.000	.33000	800.00	.3321	.2088	.4474	.9282	.1155-01	.2475-01	1.059	6.266	589.4
239	78.000	.33500	801.00	.3557	.2206	.4853	.9282	.1220-01	.2684-01	1.094	6.467	591.4
239	78.000	.34500	803.00	.3024	.1966	.3952	.9282	.1087-01	.2186-01	1.058	6.297	583.8
239	78.000	.35000	804.00	.2724	.1816	.3483	.9282	.1005-01	.1926-01	1.027	6.125	578.9
239	78.000	.35500	805.00	.2459	.1688	.3071	.9282	.9338-02	.1698-01	1.015	6.071	572.4
239	78.000	.36000	806.00	.2155	.1488	.2678	.9282	.8228-02	.1481-01	.9050	5.435	571.1
239	78.000	.36500	807.00	.2293	.1577	.2859	.9282	.8724-02	.1581-01	.9520	5.727	572.0
239	78.000	.37000	808.00	.1636	.1138	.2023	.9282	.6293-02	.1119-01	.7030	4.250	569.3
239	78.000	.37500	809.00	.1565	.1096	.1923	.9282	.6064-02	.1064-01	.6900	4.173	567.3
239	78.000	.38000	810.00	.1332	.9430-01	.1625	.9282	.5214-02	.8988-02	.6070	3.699	564.6
239	78.000	.39000	811.00	.1170	.8370-01	.1416	.9282	.4628-02	.7830-02	.5530	3.386	561.5
239	78.000	.40000	812.00	.3435	.2053	.4861	.9282	.1135-01	.2689-01	.9610	5.779	596.4
239	90.000	.24000	814.00	.6030-01	.4370-01	.7250-01	.9280	.2417-02	.4009-02	.2980	2.400	557.6
239	90.000	.27000	816.00	.5430-01	.3920-01	.6540-01	.9280	.2167-02	.3615-02	.2650	1.873	558.7
239	90.000	.29000	817.00	.1743	.1169	.2224	.9280	.6466-02	.1230-01	.6680	4.089	577.7
239	90.000	.30000	818.00	.2692	.1693	.3636	.9280	.9362-02	.2011-01	.8590	5.138	589.4
239	90.000	.31000	819.00	.2881	.1829	.3857	.9280	.1012-01	.2133-01	.9430	5.602	587.8
239	90.000	.32000	820.00	.3108	.1990	.4128	.9280	.1101-01	.2283-01	1.041	6.173	586.4
239	90.000	.32500	821.00	.3521	.2214	.4757	.9280	.1224-01	.2631-01	1.122	6.625	589.4
239	90.000	.33000	822.00	.3893	.2344	.5488	.9280	.1296-01	.3035-01	1.109	6.544	595.5
239	90.000	.34000	824.00	.3802	.2353	.5213	.9280	.1301-01	.2883-01	1.163	6.855	591.7
239	90.000	.34500	825.00	.3960	.2473	.5382	.9280	.1368-01	.2977-01	1.241	7.340	590.4
239	90.000	.35000	826.00	.4994	.2727	.7870	.9280	.1508-01	.4353-01	1.131	6.640	606.1
239	90.000	.36000	828.00	.4188	.2256	.6714	.9280	.1248-01	.3714-01	.9210	5.391	607.2
239	90.000	.36500	829.00	.2745	.1761	.3640	.9280	.9738-02	.2013-01	.9240	5.480	586.1
239	90.000	.37000	830.00	.2003	.1375	.2507	.9280	.7606-02	.1386-01	.8260	4.944	572.5
239	90.000	.37500	831.00	.1672	.1173	.2056	.9280	.6486-02	.1137-01	.7400	4.466	567.0
239	90.000	.38000	832.00	.1061	.7660-01	.1277	.9280	.4239-02	.7060-02	.5200	3.151	558.4
239	90.000	.39000	833.00	.6880-01	.5070-01	.8170-01	.9280	.2805-02	.4517-02	.3630	2.231	551.7
239	90.000	.40000	834.00	.7530-01	.5540-01	.8940-01	.9280	.3062-02	.4943-02	.3950	2.432	552.2
239	90.000	.50000	835.00	.4570-01	.3290-01	.5510-01	.9280	.1819-02	.3046-02	.2210	1.390	559.4
239	90.000	.60000	836.00	.8390-01	.6010-01	.1016	.9280	.3323-02	.5622-02	.3980	2.535	561.2
239	90.000	.70000	837.00	.9320-01	.6460-01	.1156	.9280	.3575-02	.6395-02	.3970	2.766	569.9
239	90.000	.80000	838.00	.8520-01	.6010-01	.1045	.9280	.3322-02	.5779-02	.3830	2.358	565.8
239	90.000	.90000	839.00	.1099	.7320-01	.1411	.9280	.4046-02	.7805-02	.4120	2.591	579.3
239	112.50	.23000	840.00	.5980-01	.4380-01	.7140-01	.9280	.2420-02	.3948-02	.3070	2.464	554.3
239	112.50	.25000	841.00	.3240-01	.2380-01	.3870-01	.9278	.1316-02	.2139-02	.1680	1.300	553.2

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F40)

IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA

RUN NUMBER	PHI	X/L	/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
239	112.50	.30000	843.00	.9260-01	.6720-01	.1113	.9278	.3716-02	.6155-02	.4610	2.728	557.0
239	112.50	.33000	844.00	.1831	.1272	.2276	.9278	.7034-02	.1259-01	.7840	4.672	569.6
239	112.50	.35000	845.00	.1559	.1101	.1911	.9278	.6090-02	.1057-01	.7070	4.291	565.1
239	112.50	.37000	846.00	.1068	.7750-01	.1282	.9278	.4289-02	.7091-02	.5330	3.271	556.7
239	112.50	.40000	847.00	.4480-01	.3350-01	.5280-01	.9278	.1850-02	.2919-02	.2480	1.548	546.8
239	112.50	.45000	848.00	.2940-01	.2190-01	.3460-01	.9278	.1212-02	.1912-02	.1630	1.022	546.8
239	112.50	.50000	849.00	.1800-01	.1320-01	.2140-01	.9278	7276-03	.1185-02	.9300-01	.5940	553.7
239	112.50	.55000	850.00	.1350-01	.9800-02	.1620-01	.9278	.5445-03	.8977-03	.6800-01	4520	556.1
239	112.50	.60000	851.00	.6390-01	.4620-01	.7700-01	.9278	.2556-02	.4257-02	.3150	2.096	558.0
239	112.50	.65000	852.00	.1256	.8880-01	.1538	.9278	.4913-02	.8506-02	.5720	3.856	564.7
239	112.50	.70000	853.00	.1492	.1026	.1869	.9278	.5676-02	.1034-01	.6190	4.289	572.0
239	112.50	.75000	854.00	.1069	.7400-01	.1331	.9278	.4095-02	.7364-02	.4540	2.908	570.3
239	112.50	.80000	855.00	.1053	.7400-01	.1297	.9278	.4094-02	.7171-02	.4690	3.022	566.5
239	112.50	.90000	856.00	.1203	.8050-01	.1540	.9278	.4455-02	.8516-02	.4590	2.932	578.0
239	125.40	.84000	857.00	.1442	.9880-01	.1811	.9278	.5465-02	.1002-01	.5920	3.608	572.8
239	125.40	.85000	858.00	.1421	.9740-01	.1785	.9278	.5389-02	.9870-02	.5840	3.580	572.8
239	125.40	.86000	859.00	.1085	.7540-01	.1348	.9278	.4170-02	.7456-02	.4650	2.883	569.5
239	125.40	.87000	860.00	.9947-01	.6890-01	.1237	.9278	.38'3-02	.6839-02	.4240	2.632	569.9
239	125.40	.88000	861.00	.10?7	.6990-01	.1273	.9278	.3867-02	.7041-02	.4220	2.618	572.0
239	125.40	.89000	862.00	.1296	.8790-01	.1642	.9278	.4863-02	.9081-02	.5150	3.209	575.2
239	125.40	.90000	863.00	.1545	.1033	.1980	.9278	.5715-02	.1095-01	.5880	3.678	578.2
239	125.40	.91000	864.00	.1105	.7430-01	.1411	.9278	.4110-02	.7804-02	.4270	3.057	577.2
239	125.40	.92600	865.00	.1538	.9850-01	.2050	.9278	.5448-02	.1134-01	.5160	3.664	586.4
239	129.30	.81000	867.00	.7120-01	.5000-01	.8760-01	.9278	.2767-02	.4845-02	.3170	1.962	566.5
239	129.30	.82000	868.00	.8570-01	.6020-01	.1056	.9278	.3332-02	.5840-02	.3810	2.360	566.6
239	129.30	.83000	869.00	.1050	.7230-01	.1313	.9278	.3999-02	.7263-02	.4380	2.708	571.7
239	135.00	.40000-01	870.00	.4515	.3062	.4107	.9605	.1694-01	.2272-01	1.792	11.36	575.3
239	135.00	.50000-01	871.00	.4965	.3338	.4647	.9570	.1846-01	.2570-01	1.919	12.08	577.1
239	135.00	.60000-01	872.00	.1200-02	.9000-03	.1100-02	.9538	.4823-04	.6231-04	.7000-02	.4500-01	541.8
239	135.00	.70000-01	873.00	.4241	.2669	.4205	.9507	.1471-01	.2326-01	1.343	8.944	589.8
239	135.00	.:0000+00	875.00	.2822	.1936	.3022	.9428	.1071-01	.1672-01	1.161	7.522	572.6
239	135.00	.15000	876.00	.1482	.1041	.1725	.9334	.5759-02	.9539-02	.6600	4.779	566.6
239	135.00	.20000	877.00	.8440-01	.6160-01	.1003	.9286	.3408-02	.5549-02	.4300	2.884	555.0
239	135.00	.35000	878.00	.6970-01	.5120-01	.8290-01	.9278	.2834-02	.4588-02	.3650	2.260	552.4
239	135.00	.40000	879.00	.7980-01	.5810-01	.9570-01	.9278	.3215-02	.5291-02	.4030	2.542	555.8
239	135.00	.50000	880.00	.5440-01	.3930-01	.6570-01	.9278	.2173-02	.3634-02	.2660	1.814	558.7
239	135.00	.55000	881.00	.7600-01	.5400-01	.9270-01	.9278	.2988-02	.5126-02	.3520	2.327	563.2
239	135.0	.60000	882.00	.1119	7910-01	.1371	.9278	.4375-02	.7584-02	.5090	3.387	564.8
239	135.00	.65000	883.00	.8790-01	.6220-01	.1077	.9278	.3438-02	.5958-02	.4000	2.702	564.8
239	135.00	.70000	884.00	.6150-01	.4350-01	.7540-01	.9278	.2406-02	.4170-02	.2800	1.969	564.8
239	135.00	.75000	885.00	.4520-01	.3180-01	.5560-01	.9278	.1759-02	.3077-02	.2020	1.261	566.3
239	135.00	.80000	886.00	.6730-01	.4760-01	.8240-01	.9278	.2633-02	.4559-02	.3060	1.908	564.7
239	135.00	.84000	887.00	.7590-01	.5980-01	.9460-01	.9130	.2678-02	.4234-02	.0000	.0000	244.7

IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA (RV7F40)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
237	180.00	.40000-01	600.00	.3644	.2462	.3476	.9550	.1362-01	.1923-01	1.431	9.068	576.1
237	180.00	.50000-01	601.00	.3972	.2657	.3903	.9518	.1470-01	.2160-01	1.512	9.597	578.3
237	180.00	.60000-01	602.00	.3658	.2321	.3712	.9487	.1285-01	.2054-01	1.197	7.814	588.0
237	180.00	.70000-01	603.00	.4029	.2499	.4241	.9459	.1383-01	.2347-01	1.240	8.278	591.5
237	180.00	.80000-01	604.00	.3641	.2305	.3947	.9433	.1275-01	.2184-01	1.184	7.542	588.4
237	180.00	.10000+00	605.00	.1894	.1302	.2109	.9388	.7204-02	.1167-01	.7850	5.564	572.2
237	180.00	.15000	606.00	.1084	.7560-01	.1298	.9310	.4185-02	.7184-02	.4710	3.390	568.5
237	180.00	.20000	607.00	.6520-01	.4720-01	.7830-01	.9279	.2611-02	.4335-02	.3230	2.093	557.7
237	180.00	.21000	608.00	.5230-01	.3800-01	.6280-01	.9278	.2105-02	.3477-02	.2620	1.802	556.6
237	180.00	.22000	609.00	.4200-01	.3060-01	.5040-01	.9278	.1692-02	.2788-02	.2120	1.567	556.1
237	180.00	.30000	610.00	.5530-01	.3990-01	.6670-01	.9278	.2209-02	.3692-02	.2700	1.841	558.7
237	180.00	.36000	612.00	.5750-01	.4170-01	.6900-01	.9278	.2310-02	.3817-02	.2880	1.925	555.6
237	180.00	.37500	614.00	.5970-01	.4310-01	.7190-01	.9278	.2387-02	.3977-02	.2940	1.963	558.2
237	180.00	.38000	615.00	.7100-01	.5140-01	.8560-01	.9278	.2843-02	.4735-02	.3500	2.338	558.1
237	180.00	.38500	616.00	.7190-01	.5180-01	.8690-01	.9278	.2864-02	.4809-02	.3480	2.326	559.6
237	180.00	.39000	617.00	.8230-01	.5900-01	.9980-01	.9278	.3266-02	.5521-02	.3930	2.617	560.8
237	180.00	.39500	618.00	.8290-01	.5890-01	.1012	.9278	.3258-02	.5601-02	.3830	2.561	563.6
237	180.00	.40000	619.00	.1073	.7530-01	.1323	.9278	.4169-02	.7320-02	.4760	3.160	566.9
237	180.00	.40500	620.00	.1238	.8590-01	.1539	.9278	.4755-02	.8517-02	.5300	3.513	569.8
237	180.00	.41000	621.00	.1589	.1081	.2007	.9278	.5983-02	.1110-01	.6390	4.229	574.5
237	180.00	.41500	622.00	.1761	.1175	.2263	.9278	.6502-02	.1252-01	.6650	4.387	578.9
237	180.00	.42500	624.00	.2867	.1798	.3894	.9278	.9951-02	.2155-01	.9090	5.965	589.8
237	180.00	.43000	625.00	.3274	.1984	.4603	.9278	.1098-01	.2547-01	.9490	6.225	594.8
237	180.00	.44000	626.00	.4059	.2315	.6099	.9278	.1281-01	.3374-01	1.015	6.639	601.9
237	180.00	.44500	627.00	.3704	.2147	.5466	.9278	.1188-01	.3024-01	.9620	6.353	600.2
237	180.00	.45000	628.00	.2925	.1801	.4046	.9278	.9964-02	.2239-01	.8830	5.854	592.6
237	180.00	.45500	629.00	.2308	.1512	.3011	.9278	.8368-02	.1666-01	.8270	5.595	582.4
237	180.00	.46000	630.00	.1853	.1256	.2349	.9278	.6949-02	.1300-01	.7340	4.866	575.5
237	180.00	.47000	631.00	.1353	.9350-01	.1690	.9278	.5171-02	.9349-02	.5690	3.778	571.1
237	180.00	.48000	632.00	.1090	.7640-01	.1345	.9278	.4226-02	.7442-02	.4810	3.219	567.4
237	180.00	.49000	633.00	.9970-01	.7030-01	.1225	.9278	.3892-02	.6777-02	.4500	3.039	565.7
237	180.00	.50000	634.00	.1200	.8360-01	.1486	.9278	.4628-02	.8222-02	.5210	3.603	568.7
237	180.00	.55000	635.00	.1157	.7960-01	.1449	.9278	.4405-02	.8020-02	.4810	3.151	572.1
237	180.00	.60000	636.00	.1057	.7430-01	.1301	.9278	.4110-02	.7199-02	.4710	3.008	566.6
237	180.00	.65000	637.00	.8520-01	.6050-01	.1040	.9278	.3348-02	.5753-02	.3940	2.526	563.5
237	180.00	.70000	638.00	.4180-01	.3000-01	.5060-01	.9278	.1660-02	.2798-02	.2010	1.364	560.3
237	180.00	.75000	639.00	.1350-01	.9700-02	.1640-01	.9278	.5376-03	.9072-03	.6500-01	.4160	560.5
237	180.00	.80000	640.00	.3190-01	.2270-01	.3900-01	.9278	.1253-02	.2158-02	.1470	.9140	563.9
237	180.00	.85000	641.00	.7810-01	.5340-01	.9820-01	.9278	.2957-02	.5436-02	.3190	1.988	573.4
237	180.00	.86000	642.00	.8610-01	.5830-01	.1092	.9278	.3228-02	.6040-02	.3410	2.155	575.5
237	180.00	.87000	643.00	.8670-01	.5800-01	.1110	.9278	.3211-02	.6144-02	.3310	2.100	578.2
237	180.00	.88000	644.00	.8870-01	.5860-01	.1149	.9278	.3244-02	.6358-02	.3260	2.083	580.8
237	180.00	.89000	645.00	.9490-01	.6160-01	.1249	.9278	.3406-02	.6913-02	.3390	2.133	584.2

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(9V7F40)

IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
237	180.00	.90000	646.00	.6710-01	.4370-01	.8810-01	.9278	.2415-02	.4873-02	.2360	1.554	583.7
237	180.00	.95000	649.00	.3130-01	.2150-01	.3910-01	.9278	.1190-02	.2166-02	.1300	.9260	572.1
237	191.25	.35000	650.00	.5820-01	.4220-01	.7000-01	.9278	.2332-02	.3874-02	.2680	1.927	557.6
237	191.25	.36000	651.00	.6320-01	.4590-01	.7590-01	.9278	.2539-02	.4202-02	.3160	2.116	556.9
237	191.25	.37000	652.00	.6400-01	.4640-01	.7700-01	.9278	.2565-02	.4263-02	.3170	2.118	557.7
237	191.25	.37500	653.00	.6670-01	.4800-01	.8050-01	.9278	.2658-02	.4456-02	.3240	2.171	559.3
237	191.25	.38000	654.00	.6490-01	.4680-01	.7840-01	.9278	.2587-02	.4339-02	.3150	2.111	559.4
237	191.25	.39000	655.00	.7650-01	.5480-01	.9290-01	.9278	.3034-02	.5138-02	.3640	2.439	561.1
237	191.25	.39500	656.00	.7990-01	.5690-01	.9740-01	.9278	.3151-02	.5390-02	.3730	2.495	562.8
237	191.25	.39000	656.00	.8700-01	.6150-01	.1066	.9278	.3405-02	.5901-02	.3960	2.645	564.9
237	191.25	.39500	657.00	.1002	.7010-01	.1237	.9278	.3880-02	.6844-02	.4410	2.949	567.6
237	191.25	.40000	658.00	.1154	.8000-01	.1437	.9278	.4424-02	.7953-02	.4900	3.277	570.4
237	191.25	.40500	659.00	.1288	.8840-01	.1617	.9278	.4890-02	.8948-02	.5300	3.529	572.7
237	191.25	.41000	660.00	.1544	.1056	.1942	.9278	.5845-02	.1075-01	.6300	4.181	573.4
237	191.25	.41500	661.00	.2055	.1351	.2674	.9278	.7477-02	.1480-01	.7430	4.925	581.8
237	191.25	.42000	662.00	.2567	.1640	.3428	.9278	.9075-02	.1897-01	.8560	5.672	586.9
237	191.25	.42500	663.00	.3240	.1939	.4614	.9278	.1073-01	.2553-01	.9100	6.051	596.4
237	191.25	.43000	664.00	.3667	.2196	.5218	.9278	.1215-01	.2887-01	1.032	6.831	596.3
237	191.25	.44000	665.00	.2769	.1827	.3590	.9278	.1011-01	.1986-01	1.013	6.754	581.0
237	191.25	.45000	666.00	.2306	.1550	.2943	.9278	.8579-02	.1629-01	.8910	5.955	577.3
237	191.25	.45500	667.00	.2026	.1373	.2568	.9278	.7598-02	.1421-01	.8030	5.387	575.5
237	191.25	.46000	668.00	.1664	.1143	.2086	.9278	.6325-02	.1154-01	.6890	4.636	572.4
237	191.25	.47000	669.00	.1419	.9840-01	.1765	.9278	.5444-02	.9766-02	.6050	4.082	570.0
237	191.25	.48000	670.00	.1510	.1037	.1893	.9278	.5737-02	.1047-01	.6240	4.191	572.4
237	191.25	.49000	671.00	.1802	.1182	.2349	.9278	.6541-02	.1300-01	.6470	4.422	582.2
237	191.25	.50000	672.00	.9580-01	.6770-01	.1174	.9278	.3746-02	.6495-02	.4350	2.765	565.0
237	191.25	.60000	673.00	.1288	.8700-01	.1638	.9278	.4815-02	.9062-02	.5050	3.387	576.3
237	191.25	.70000	674.00	.6120-01	.4130-01	.7770-01	.9278	.2285-02	.4302-02	.2400	1.523	576.3
237	191.25	.87000	678.00	.8070-01	.5350-01	.1041	.9278	.2960-02	.5762-02	.2993	1.921	580.1
237	191.25	.88000	679.00	.6450-01	.4190-01	.8490-01	.9278	.2318-02	.4696-02	.2250	1.512	584.1
237	191.25	.91000	682.00	.3080-01	.2140-01	.3820-01	.9278	.1182-02	.2115-02	.1320	.9410	569.7
237	191.25	.95000	684.00	.5480-01	.3980-01	.6580-01	.9278	.2205-02	.3639-02	.2750	1.841	556.4
237	197.00	.33000	685.00	.5600-01	.4070-01	.6730-01	.9278	.2250-02	.3725-02	.2800	1.869	557.0
237	197.00	.34000	686.00	.6470-01	.4700-01	.7770-01	.9278	.2599-02	.4297-02	.3240	2.164	556.7
237	197.00	.35000	687.00	.6590-01	.4770-01	.7940-01	.9278	.2638-02	.4394-02	.3250	2.171	558.1
237	197.00	.36000	688.00	.2245	.1382	.3107	.9278	.7646-02	.1719-01	.6770	4.450	592.6
237	197.00	.50000	691.00	.9350-01	.6580-01	.1151	.9278	.3640-02	.6366-02	.4180	2.670	566.3
237	197.00	.60000	692.00	.1868	.1195	.2492	.9278	.6611-02	.1379-01	.6250	4.152	586.7
237	197.00	.70000	693.00	.4810-01	.3390-01	.5900-01	.9278	.1877-02	.3266-02	.2170	1.351	565.6
237	197.00	.80000	694.00	.5620-01	.3790-01	.7150-01	.9278	.2097-02	.3956-02	.2190	1.378	576.5
237	197.00	.87000	695.00	.8920-01	.5570-01	.1217	.9278	.3082-02	.6735-02	.2800	2.001	590.5
237	197.00	.92600	696.00	.2561	.1852	.3071	.9283	.1024-01	.1698-01	.0000	.0000	539.9
234	209.80	.15000-01	697.00	.3090	.2180	.2962	.9552	.1208-01	.1641-01	1.397	9.414	565.6
238	209.80	.30000-01	698.00									

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F4D)

IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
238	209.80	.50000-01	699.00	.3692	.2586	.3674	.9506	.1433-01	.2036-01	1.629	10.25	567.6
238	209.80	.70000-01	700.00	.4080	.2632	.4326	.9448	.1459-01	.2397-01	1.400	9.290	585.2
238	209.80	.10000+00	701.00	.1897	.1360	.2098	.9379	.7536-02	.1162-01	.9070	5.739	560.9
238	209.80	.15000	702.00	.1042	.7430-01	.1236	.9305	.4116-02	.6851-02	.4880	3.455	562.6
238	209.80	.20000	703.00	.5660-01	.4220-01	.6670-01	.9278	.2338-02	.3695-02	.3130	2.084	547.4
238	209.80	.30000	704.00	.6020-01	.4420-01	.7170-01	.9278	.2447-02	.3973-02	.3130	2.214	553.1
238	209.80	.37500	706.00	.8070-01	.5890-01	.9660-01	.9278	.3263-02	.5355-02	.4110	2.810	555.3
238	209.80	.50000	707.00	.1859	.1266	.2347	.9278	.7016-02	.1301-01	.7490	5.058	574.4
238	209.80	.60000	708.00	.7680-01	.5620-01	.9180-01	.9278	.3114-02	.5085-02	.3950	2.509	564.3
238	209.80	.70000	709.00	.7940-01	.5640-01	.9700-01	.9278	.3126-02	.5375-02	.3890	2.323	563.7
238	209.80	.80000	710.00	.4520-01	.3260-01	.5450-01	.9278	.1805-02	.3020-02	.2210	1.367	559.0
238	209.80	.87000	711.00	.8800-01	.6150-01	.1088	.9278	.3407-02	.6030-02	.3950	2.409	568.2
238	209.80	.92600	712.00	.9580-01	.6430-01	.1224	.9278	.3563-02	.6782-02	.3690	2.643	577.6
238	217.70	.15000-01	713.00	.1609	.1182	.1916	.9278	.6550-02	.1062-01	.8410	5.774	552.9
238	217.70	.30000-01	714.00	.2925	.2074	.2804	.9553	.1149-01	.1554-01	1.344	9.063	564.3
238	217.70	.50000-01	715.00	.3494	.2476	.3476	.9506	.1372-01	.1926-01	1.603	10.37	564.4
238	217.70	.70000-01	716.00	.3491	.2297	.3687	.9449	.1273-01	.2043-01	1.269	8.503	581.6
238	217.70	.10000+00	717.00	.1983	.1411	.2199	.9379	.7816-02	.1219-01	.9220	5.929	563.3
238	217.70	.15000	718.00	.1060	.7600-01	.1253	.9305	.4213-02	.6941-02	.5070	3.688	560.8
238	217.70	.20000	719.00	.5780-01	.4320-01	.6790-01	.9278	.2356-02	.3761-02	.3250	2.190	545.8
238	217.70	.30000	720.00	.6800-01	.4970-01	.8120-01	.9278	.2755-02	.4497-02	.3500	2.494	554.2
238	217.70	.35000	721.00	.8350-01	.6130-01	.9940-01	.9278	.3398-02	.5509-02	.4360	3.013	552.9
238	217.70	.37500	722.00	.8330-01	.6080-01	.9960-01	.9278	.3368-02	.5520-02	.4250	2.934	555.0
238	217.70	.50000	723.00	.1237	.8710-01	.1521	.9278	.4827-02	.6427-02	.5050	3.812	566.1
238	217.70	.70000	725.00	.7180-01	.5150-01	.8720-01	.9278	.2852-02	.4830-02	.3430	2.162	561.1
238	217.70	.80000	726.00	.5480-01	.3940-01	.6630-01	.9278	.2182-02	.3676-02	.2640	1.648	560.2
238	217.70	.87000	727.00	.1176	.8130-01	.1467	.9278	.4504-02	.8126-02	.4970	3.138	570.9
238	217.70	.92600	728.00	.1309	.8530-01	.1718	.9278	.4725-02	.9521-02	.4610	3.293	583.6

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F41)

IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = 5.000 BETA = -6.000 GRIT = 6.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
240	3.510	4.792	5.010	5.900	-50.00	57.00	.7370	681.0	196.6	6.357	2412.	.3145-03
241	3.510	4.801	5.020	6.000	-50.00	57.10	.7380	681.0	196.6	6.368	2412.	.3151-03
242	3.510	4.791	5.020	6.000	-50.00	57.00	.7370	681.0	196.6	6.355	2411.	.3145-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
240	.1583-06	.5539-01	.9286-02
241	.1583-06	.5544-01	.9277-02
242	.1583-06	.5538-01	.9286-02

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
241	.00000	.30000-02	730.00	.4519	.2982	.3441	.9804	.1653-01	.1907-01	1.655	11.1	580.9
241	.00000	.10300-01	731.00	.2331	.1722	.2751	.9284	.9545-02	.1525-01	1.243	8.545	550.8
241	.00000	.15000-01	732.00	.2112	.1580	.2471	.9284	.8757-02	.1370-01	1.183	8.049	546.0
241	.00000	.20000-01	733.00	.2855	.2050	.2360	.9767	.1137-01	.1308-01	1.374	9.369	560.2
241	.00000	.25000-01	734.00	.5460	.3453	.4245	.9746	.1914-01	.2353-01	1.773	11.82	588.4
241	.00000	.30000-01	735.00	.7736	.4398	.5742	.9729	.2438-01	.3183-01	1.924	12.81	602.1
241	.00000	.40000-01	737.00	.6089	.3907	.4919	.9713	.2166-01	.2727-01	2.059	13.17	586.0
241	.00000	.45000-01	738.00	.6094	.3900	.5000	.9694	.2162-01	.2772-01	2.045	13.28	586.4
241	.00000	.60000-01	739.00	.5242	.3077	.4375	.9641	.1706-01	.2425-01	1.407	9.214	598.6
241	.00000	.70000-01	740.00	.5120	.3058	.4474	.9607	.1695-01	.2480-01	1.433	9.454	596.5
241	.00000	.80000-01	741.00	.4304	.2616	.3925	.9575	.1450-01	.2176-01	1.259	8.938	594.2
241	.00000	.10000+00	742.00	.3452	.2305	.3401	.9515	.1278-01	.1885-01	1.309	8.610	578.6
241	.00000	.12500	743.00	.2440	.1609	.2573	.9450	.8921-02	.1427-01	.8920	6.377	581.0
241	.00000	.15000	744.00	.2042	.1406	.2257	.9395	.7794-02	.1251-01	.8520	5.848	571.8
241	.00000	.17500	745.00	.1521	.1067	.1742	.9350	.5918-02	.9658-02	.6760	5.032	566.8
241	.00000	.20000	746.00	.1163	.8360-01	.1359	.9316	.4635-02	.7534-02	.5610	3.985	560.1
241	.00000	.21500	747.00	.1027	.7390-01	.1215	.9301	.4100-02	.6734-02	.4990	3.434	559.4
241	.00000	.23000	748.00	.8900-01	.6400-01	.1066	.9290	.3546-02	.5908-02	.4290	3.149	560.1

IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
241	.00000	.24000	749.00	.7570-01	.5460-01	.9090-01	.9284	.3027-02	.5039-02	.3690	2.769	559.0
241	.00000	.25000	750.00	.4530-01	.3290-01	.5410-01	.9284	.1824-02	.2998-02	.2270	1.827	556.6
241	.00000	.30000	751.00	.7780-01	.5660-01	.9280-01	.9284	.3140-02	.5145-02	.3930	2.565	556.0
241	.00000	.40000	753.00	.8800-01	.6470-01	.1041	.9284	.3585-02	.5773-02	.4610	2.956	552.5
241	.00000	.50000	754.00	.8690-01	.6280-01	.1041	.9284	.3483-02	.5770-02	.4280	2.786	558.1
241	.00000	.60000	755.00	.1200	.8600-01	.1447	.9284	.4769-02	.8021-02	.5730	3.650	560.8
241	.00000	.70000	756.00	.3900-01	.7000-01	.1204	.9284	.3880-02	.6677-02	.4510	2.953	564.7
241	.00000	.80000	757.00	.7990-01	.5690-01	.9680-01	.9284	.3156-02	.5366-02	.3740	2.322	562.7
241	.00000	.90000	758.00	.5510-01	.3860-01	.6750-01	.9284	.2143-02	.3745-02	.2440	1.562	567.1
241	55.000	.22000	759.00	.1122	.7970-01	.1326	.9312	.4418-02	.7350-02	.5190	3.827	563.6
241	55.000	.25000	760.00	.6020-01	.4320-01	.7180-01	.9294	.2397-02	.3983-02	.2900	2.253	560.3
241	55.000	.27000	761.00	.6530-01	.4610-01	.7890-01	.9294	.2556-02	.4375-02	.2950	2.178	565.4
241	55.000	.30000	762.00	.1014	.7290-01	.1209	.9294	.4044-02	.6701-02	.4900	2.930	559.8
241	55.000	.32000	763.00	.1213	.8710-01	.1447	.9294	.4828-02	.8020-02	.5830	3.427	560.3
241	55.000	.34000	764.00	.1410	.1004	.1691	.9294	.5568-02	.9375-02	.6590	3.879	562.7
241	55.000	.36000	765.00	.1750	.1227	.2122	.9294	.6804-02	.1176-01	.7760	4.620	567.0
241	55.000	.38000	766.00	.1937	.1340	.2372	.9294	.7430-02	.1315-01	.8210	4.934	570.5
241	55.000	.40000	767.00	.1926	.1347	.2339	.9294	.7469-02	.1297-01	.8470	5.237	567.7
241	67.500	.23000	768.00	.1107	.7870-01	.1321	.9301	.4364-02	.7325-02	.5140	3.795	563.2
241	67.500	.25000	769.00	.6200-01	.4460-01	.7400-01	.9293	.2472-02	.4102-02	.3000	2.315	559.8
241	67.500	.27000	770.00	.7300-01	.5160-01	.8820-01	.9293	.2860-02	.4887-02	.3320	2.401	564.9
241	67.500	.29000	771.00	.7270-01	.5220-01	.8690-01	.9293	.2893-02	.4817-02	.3490	2.148	560.4
241	67.500	.30000	772.00	.1179	.8300-01	.1427	.9293	.4604-02	.7912-02	.5300	3.210	565.8
241	67.500	.31000	773.00	.1349	.9510-01	.1631	.9293	.5274-02	.9044-02	.6090	3.659	565.5
241	67.500	.32000	774.00	.1655	.1155	.2017	.9293	.6401-02	.1118-01	.7210	4.289	568.4
241	67.500	.32500	775.00	.1872	.1290	.2303	.9293	.7154-02	.1277-01	.7840	4.667	571.5
241	67.500	.33000	776.00	.2101	.1417	.2627	.9293	.7868-02	.1456-01	.8220	4.897	576.4
241	67.500	.33500	777.00	.2508	.1664	.3176	.9293	.9227-02	.1761-01	.9340	5.554	579.8
241	67.500	.34000	778.00	.2668	.1753	.3404	.9293	.9721-02	.1887-01	.9660	5.737	581.7
241	67.500	.34500	779.00	.2774	.1801	.3574	.9293	.9985-02	.1981-01	.9700	5.770	583.9
241	67.500	.35000	780.00	.2682	.1759	.3428	.9293	.9750-02	.1901-01	.9640	5.759	582.1
241	67.500	.36000	782.00	.2296	.1557	.2858	.9293	.8630-02	.1585-01	.9130	5.485	575.3
241	67.500	.36500	783.00	.2085	.1441	.2559	.9293	.7987-02	.1419-01	.8800	5.286	570.8
241	67.500	.37000	784.00	.1839	.1283	.2241	.9293	.7113-02	.1242-01	.8020	4.847	568.3
241	67.500	.37500	785.00	.1739	.1213	.2119	.9293	.6726-02	.1175-01	.7580	4.522	568.3
241	67.500	.39000	786.00	.1681	.1174	.2049	.9293	.6506-02	.1136-01	.7330	4.484	568.3
241	67.500	.39000	787.00	.1534	.1079	.1859	.9293	.5984-02	.1031-01	.6870	4.218	566.2
241	67.500	.40000	788.00	.1353	.9630-01	.1627	.9293	.5337-02	.9022-02	.6290	3.901	563.1
241	67.500	.50000	789.00	.6990-01	.4980-01	.8400-01	.9293	.2763-02	.4657-02	.3270	2.081	562.6
242	67.500	.60000	790.00	.8200-01	.5860-01	.9830-01	.9293	.3248-02	.5447-02	.3870	2.523	561.8
242	67.500	.70000	791.00	.8900-01	.6080-01	.1079	.9293	.3371-02	.5984-02	.3720	2.595	570.7
242	67.500	.80000	792.00	.9460-01	.6590-01	.1153	.9293	.3652-02	.6389-02	.4110	2.552	563.6
242	67.500	.90000	793.00	.6470-01	.4280-01	.8210-01	.9293	.2373-02	.4553-02	.2390	1.514	580.4

DATE 03 JUN 76

AEDC V41A-A4A (1H-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F41)

1H41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
242	78.000	.27000	794.00	.7020-01	.4960-01	.8500-01	.9290	.2750-02	.4712-02	.3190	2.256	565.0
242	78.000	.29000	795.00	.1090	.7640-01	.1328	.9290	.4235-02	.7364-02	.4820	2.938	567.3
242	78.000	.30000	796.00	.1977	.1351	.2453	.9290	.7482-02	.1358-01	.8050	4.815	573.4
242	78.000	.31000	797.00	.2654	.1732	.3415	.9290	.9594-02	.1891-01	.9410	5.600	582.9
242	78.000	.32000	798.00	.3176	.2029	.4162	.9290	.1124-01	.2305-01	1.060	6.262	586.7
242	78.000	.32500	799.00	.3373	.2154	.4421	.9290	.1193-01	.2449-01	1.124	6.660	586.8
242	78.000	.33000	800.00	.3586	.2241	.4791	.9290	.1241-01	.2653-01	1.127	6.667	590.2
242	78.000	.33500	801.00	.3844	.2361	.5018	.9290	.1308-01	.2890-01	1.154	6.819	592.7
242	78.000	.34000	802.00	.3514	.2174	.4735	.9290	.1204-01	.2623-01	1.076	6.360	591.7
242	78.000	.34500	803.00	.3196	.2078	.4126	.9290	.1151-01	.2285-01	1.120	6.666	583.7
242	78.000	.35000	804.00	.2853	.1904	.3606	.9290	.1054-01	.1997-01	1.079	6.439	578.6
242	78.000	.35500	805.00	.2441	.1680	.3014	.9290	.9303-02	.1669-01	1.015	6.078	571.9
242	78.000	.36000	806.00	.2190	.1511	.2698	.9290	.8367-02	.1494-01	.9190	5.518	571.2
242	78.000	.37000	808.00	.1823	.1266	.2235	.9290	.7014-02	.1238-01	.7820	4.726	569.5
242	78.000	.37500	809.00	.1675	.1170	.2044	.9290	.6481-02	.1132-01	.7320	4.429	568.0
242	78.000	.38000	810.00	.1433	.1014	.1733	.9290	.5617-02	.9600-02	.6540	3.984	564.5
242	78.000	.39000	811.00	.1236	.8860-01	.1482	.9290	.4904-02	.8206-02	.5890	3.604	560.9
242	78.000	.40000	812.00	.3604	.2117	.5107	.9290	.1172-01	.2829-01	.9670	5.810	598.5
242	90.000	.24000	814.00	.8360-01	.6000-01	.1004	.9287	.3323-02	.5560-02	.4010	3.220	560.4
242	90.000	.27000	816.00	.7000-01	.5010-01	.8420-01	.9287	.2776-02	.4666-02	.3330	2.348	561.1
242	90.000	.29000	817.00	.2112	.1392	.2707	.9287	.7710-02	.1499-01	.7700	4.706	581.1
242	90.000	.30000	818.00	.3113	.1928	.4214	.9287	.1068-01	.2334-01	.9550	5.711	591.5
242	90.000	.31000	819.00	.3386	.2127	.4527	.9287	.1178-01	.2507-01	1.078	6.398	589.5
242	90.000	.32000	820.00	.3506	.2221	.4650	.9287	.1230-01	.2575-01	1.142	6.765	588.1
242	90.000	.32500	821.00	.3852	.2383	.5220	.9287	.1320-01	.2891-01	1.179	6.949	591.7
242	90.000	.33000	822.00	.4247	.2483	.6081	.9287	.1376-01	.3368-01	1.130	6.655	598.9
242	90.000	.34000	824.00	.4144	.2526	.5695	.9287	.1399-01	.3154-01	1.220	7.185	593.8
242	90.000	.34500	825.00	.4068	.2533	.5481	.9287	.1403-01	.3036-01	1.265	7.484	590.8
242	90.000	.35000	826.00	.4896	.2682	.7545	.9287	.1485-01	.4178-01	1.119	6.567	605.7
242	90.000	.36000	828.00	.4533	.2405	.7267	.9287	.1332-01	.4025-01	.9660	5.651	608.5
242	90.000	.36500	829.00	.2984	.1894	.3952	.9287	.1049-01	.2188-01	.9770	5.790	587.8
242	90.000	.37000	830.00	.2106	.1444	.2615	.9287	.7999-02	.1448-01	.8670	5.188	572.6
242	90.000	.37500	831.00	.1755	.1229	.2145	.9287	.6807-02	.1188-01	.7740	4.667	567.3
242	90.000	.38000	832.00	.1233	.8890-01	.1475	.9287	.4925-02	8169-02	.6020	3.647	558.8
242	90.000	.39000	833.00	.7760-01	.5730-01	.9130-01	.9287	.3174-02	5056-02	.4140	2.546	550.6
242	90.000	.40000	834.00	.7720-01	.5700-01	.9100-01	.9287	.3156-02	.5040-02	.4100	2.526	551.2
242	90.000	.50000	835.00	.4810-01	.3490-01	.5740-01	.9287	.1933-02	.3177-02	.2400	1.507	557.0
242	90.000	.60000	836.00	.9330-01	.6700-01	.1121	.9287	.3711-02	.6206-02	.4480	2.965	560.3
242	90.000	.70000	837.00	.8830-01	.6200-01	.1077	.9287	.3435-02	.5967-02	.3930	2.740	566.6
242	90.000	.80000	838.00	.1068	.7560-01	.1296	.9287	.4184-02	.7175-02	.4870	3.000	564.6
242	90.000	.90000	839.00	.1071	.7080-01	.1371	.9287	.3918-02	.7592-02	.3930	2.470	580.7
242	112.50	.23000	840.00	.7350-01	.5340-01	.8770-01	.9285	.2960-02	.4857-02	.3690	2.958	556.4
242	112.50	.25000	841.00	.3990-01	.2920-01	.4750-01	.9281	.1619-02	.2630-02	.2060	1.594	553.6

POOR QUALITY

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F41)

IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
242	112.50	.30000	843.00	.1058	.7630-01	.1274	.9281	.4223-02	.7056-02	.5150	3.044	559.1
242	112.50	.33000	844.00	.2070	.1427	.2578	.9281	.7903-02	.1428-01	.8370	5.161	571.3
242	112.50	.35000	845.00	.1660	.1171	.2030	.9281	.6487-02	.1124-01	.7500	4.556	565.3
242	112.50	.37000	846.00	.1080	.7840-01	.1295	.9281	.4340-02	.7171-02	.5380	3.299	557.0
242	112.50	.40000	847.00	.4650-01	.3480-01	.5460-01	.9281	.1928-02	.3023-02	.2610	1.625	545.8
242	112.50	.45000	848.00	.3010-01	.2250-01	.3530-01	.9281	.1247-02	.1956-02	.1680	1.058	546.0
242	112.50	.50000	849.00	.2700-01	.1980-01	.3210-01	.9281	.1097-02	.1778-02	.1400	.8990	553.1
242	112.50	.55000	850.00	.3670-01	.2670-01	.4390-01	.9281	.1479-02	.2429-02	.1850	1.230	555.9
242	112.50	.60000	851.00	.7980-01	.5760-01	.9610-01	.9281	.3187-02	.5323-02	.3890	2.590	559.0
242	112.50	.65000	852.00	.7340-01	.5270-01	.8850-01	.9281	.2921-02	.4901-02	.3540	2.391	559.9
242	112.50	.70000	853.00	.1152	.8020-01	.1424	.9281	.4442-02	.7888-02	.4980	3.455	569.0
242	112.50	.75000	854.00	.1023	.7130-01	.1263	.9281	.3947-02	.6995-02	.4430	2.844	568.7
242	112.50	.80000	855.00	.1075	.7590-01	.1315	.9281	.4204-02	.7283-02	.4870	3.137	565.2
242	112.50	.90000	856.00	.1122	.7750-01	.1440	.9281	.4127-02	.7977-02	.4190	2.670	579.6
242	125.40	.84000	857.00	.1987	.1348	.2513	.9279	.7466-02	.1392-01	.7910	4.819	575.1
242	125.40	.85000	858.00	.1841	.1250	.2327	.9279	.6924-02	.1289-01	.7350	4.502	574.9
242	125.40	.86000	859.00	.1374	.9480-01	.1715	.9279	.5247-02	.3498-02	.5760	3.564	571.3
242	125.40	.87000	860.00	.1569	.1070	.1977	.9279	.5925-02	.1099-01	.6340	3.930	574.0
242	125.40	.88000	861.00	.1543	.1049	.1948	.9279	.5810-02	.1079-01	.6180	3.832	574.6
242	125.40	.89000	862.00	.1552	.1044	.1977	.9279	.5783-02	.1095-01	.6020	3.748	576.9
242	125.40	.90000	863.00	.1498	.9980-01	.1924	.9279	.5529-02	.1066-01	.5640	3.530	578.9
242	125.40	.91000	864.00	.9880-01	.6670-01	.1256	.9279	.3695-02	.6953-02	.3870	2.774	576.2
242	125.40	.92600	865.00	.1865	.1178	.2512	.9279	.6526-02	.1391-01	.6040	4.284	588.5
242	129.30	.80000	866.00	.1218	.8490-01	.1509	.9278	.4701-02	.8356-02	.5280	3.282	568.7
242	129.30	.81000	867.00	.1287	.8960-01	.1596	.9278	.4964-02	.8838-02	.5560	3.438	568.9
242	129.30	.82000	868.00	.1315	.9170-01	.1628	.9278	.5078-02	.9016-02	.5710	3.531	568.5
242	129.30	.83000	869.00	.1606	.1092	.2028	.9278	.6048-02	.1123-01	.6440	3.979	574.5
242	135.00	.40000-01	870.00	.4533	.3037	.3997	.9636	.1682-01	.2214-01	1.736	10.99	577.8
242	135.00	.50000-01	871.00	.4919	.3285	.4470	.9601	.1819-01	.2475-01	1.865	11.73	578.5
242	135.00	.70000-01	873.00	.4364	.2705	.4178	.9536	.1498-01	.2314-01	1.342	8.928	591.4
242	135.00	.10000+00	875.00	.2712	.1851	.2837	.9453	.1025-01	.1571-01	1.099	7.117	573.8
242	135.00	.16000	876.00	.1666	.1159	.1916	.9351	.6417-02	.1061-01	.7180	5.195	559.1
242	135.00	.20000	877.00	.3820-01	.7130-01	.1165	.9293	.3948-02	.6450-02	.4900	3.287	556.9
242	135.00	.35000	878.00	.9770-01	.6420-01	.1047	.9278	.3557-02	.5801-02	.4520	2.800	553.6
242	135.00	.40000	879.00	.8030-01	.5870-01	.9600-01	.9278	.3253-02	.5315-02	.4120	2.603	554.3
242	135.00	.50000	880.00	.8950-01	.6380-01	.1091	.9278	.3531-02	.6044-02	.4180	2.844	562.8
242	135.00	.55000	881.00	.6180-01	.4410-01	.7520-01	.9278	.2444-02	.4167-02	.2910	1.921	562.1
242	135.00	.60000	882.00	.9780-01	.6950-01	.1193	.9278	.3851-02	.6606-02	.4540	3.026	563.1
242	135.00	.65000	883.00	.1624	.1124	.2023	.9278	.6227-02	.1121-01	.6890	4.647	570.4
242	135.00	.70000	884.00	.9580-01	.6760-01	.1195	.9278	.3756-02	.6619-02	.4270	3.003	567.3
242	135.00	.75000	885.00	.8490-01	.5950-01	.1046	.9278	.3295-02	.5791-02	.3760	2.345	566.9
242	135.00	.80000	886.00	.9460-01	.6650-01	.1164	.9278	.3682-02	.6449-02	.4220	2.625	566.4
242	135.00	.84000	887.00	.7590-01	.5980-01	.9460-01	.9130	.2678-02	.4234-02	.0000	.0000	244.7

DATE 03 JUN 76

AEDC V41A-A4A (1H-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F41)

(1H41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
240	180.00	.40000-01	600.00	.3585	.2412	.3429	.9547	.1336-01	.1899-01	1.390	8.805	577.0
240	180.00	.50000-01	601.00	.3987	.2646	.3929	.9515	.1465-01	.2176-01	1.483	9.409	579.9
240	180.00	.60000-01	602.00	.3570	.2259	.3636	.9484	.1251-01	.2014-01	1.160	7.571	588.4
240	180.00	.70000-01	603.00	.4048	.2487	.4281	.9457	.1377-01	.2371-01	1.216	8.112	592.8
240	180.00	.80000-01	604.00	.3675	.2316	.3999	.9431	.1283-01	.2215-01	1.182	7.529	589.0
240	180.00	.10000+00	605.00	.1903	.1306	.2125	.9386	.7236-02	.1177-01	.7860	5.566	572.5
240	180.00	.15000	606.00	.1141	.7940-01	.1370	.9309	.4399-02	.7589-02	.4930	3.540	569.1
240	180.00	.20000	607.00	.6220-01	.4490-01	.7490-01	.9279	.2488-02	.4150-02	.3050	1.978	558.5
240	180.00	.21000	608.00	.5020-01	.3650-01	.6030-01	.9278	.2021-02	.3339-02	.2520	1.731	556.5
240	180.00	.22000	609.00	.4050-01	.2950-01	.4860-01	.9278	.1631-02	.2689-02	.2040	1.510	556.1
240	180.00	.30000	610.00	.3570-01	.2600-01	.4270-01	.9278	.1440-02	.2366-02	.1810	1.234	555.4
240	180.00	.36000	612.00	.5110-01	.3730-01	.6130-01	.9278	.2064-02	.3394-02	.2590	1.734	555.6
240	180.00	.37500	614.00	.5680-01	.4130-01	.6830-01	.9278	.2285-02	.3783-02	.2840	1.897	556.9
240	180.00	.38000	615.00	.5720-01	.4150-01	.6870-01	.9278	.2301-02	.3804-02	.2860	1.915	556.7
240	180.00	.38500	616.00	.6120-01	.4420-01	.7370-01	.9278	.2450-02	.4083-02	.3010	2.013	558.2
240	180.00	.39000	617.00	.6970-01	.5010-01	.8430-01	.9278	.2776-02	.4567-02	.3370	2.243	559.7
240	180.00	.39500	618.00	.7620-01	.5420-01	.9300-01	.9278	.3002-02	.5149-02	.3540	2.366	563.2
240	180.00	.40000	619.00	.9100-01	.6360-01	.1126	.9278	.3524-02	.6235-02	.3980	2.642	568.0
240	180.00	.40500	620.00	.1098	.7570-01	.1372	.9278	.4194-02	.7601-02	.4600	3.054	571.4
240	180.00	.41000	621.00	.1342	.9080-01	.1703	.9278	.5028-02	.9435-02	.5290	3.506	575.8
240	180.00	.41500	622.00	.1636	.1091	.2103	.9278	.6045-02	.1165-01	.6180	4.076	578.9
240	180.00	.42500	624.00	.2271	.1457	.3022	.9278	.8068-02	.1674-01	.7660	5.033	586.2
240	180.00	.43000	625.00	.2599	.1626	.3539	.9278	.9009-02	.1960-01	.8200	5.393	590.1
240	180.00	.44000	626.00	.3197	.1896	.4597	.9278	.1050-01	.2546-01	.8790	5.763	597.4
240	180.00	.44500	627.00	.3131	.1897	.4401	.9278	.1051-01	.2437-01	.9080	6.016	594.7
240	180.00	.45000	628.00	.2552	.1622	.3450	.9278	.8983-02	.1911-01	.8340	5.539	588.3
240	180.00	.45500	629.00	.1986	.1314	.2570	.9278	.7278-02	.1424-01	.7320	4.959	580.5
240	180.00	.46000	630.00	.1660	.1120	.2112	.9278	.6204-02	.1170-01	.6500	4.303	576.4
240	180.00	.47000	631.00	.1304	.8990-01	.1630	.9278	.4982-02	.9029-02	.5460	3.628	571.4
240	180.00	.48000	632.00	.1167	.8150-01	.1444	.9278	.4517-02	.7996-02	.5100	3.415	568.1
240	180.00	.49000	633.00	.1187	.8330-01	.1463	.9278	.4615-02	.8102-02	.5270	3.562	566.9
240	180.00	.50000	634.00	.1164	.8110-01	.1443	.9278	.4490-02	.7991-02	.5040	3.486	568.9
240	180.00	.55000	635.00	.9220-01	.6450-01	.1139	.9278	.3573-02	.6311-02	.4050	2.662	567.8
240	180.00	.60000	636.00	.1099	.7660-01	.1361	.9278	.4245-02	.7537-02	.4780	3.049	568.5
240	180.00	.65000	637.00	.1148	.8060-01	.1415	.9278	.4466-02	.7837-02	.5110	3.270	566.8
240	190.00	.70000	638.00	.7340-01	.5200-01	.8980-01	.9278	.2880-02	.4976-02	.3360	2.282	564.4
240	180.00	.75000	639.00	.6830-01	.4770-01	.7210-01	.9278	.2312-02	.3994-02	.2700	1.725	564.4
240	180.00	.80000	640.00	.6660-01	.4720-01	.8150-01	.9278	.2612-02	.4513-02	.3050	1.894	564.4
240	180.00	.85000	641.00	.7260-01	.4990-01	.9090-01	.9278	.2764-02	.5034-02	.3010	1.880	572.1
240	180.00	.86000	642.00	.1028	.6930-01	.1309	.9278	.3841-02	.7248-02	.4020	2.539	576.5
240	180.00	.87000	643.00	.1408	.9320-01	.1820	.9278	.5165-02	.1008-01	.5210	3.303	580.3
240	180.00	.88000	644.00	.1536	.9980-01	.2020	.9278	.5526-02	.1119-01	.5370	3.428	584.0
240	180.00	.89000	645.00	.1417	.9090-01	.1884	.9278	.5037-02	.1043-01	.4790	3.091	586.0

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F41)

IH-1(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
240	180.00	.90000	646.00	.1406	.8950-01	.1883	.9278	.4957-02	.1043-01	.4550	3.060	587.4
240	180.00	.95000	649.00	.4800-01	.3380-01	.5910-01	.9278	.1874-02	.3272-02	.2160	1.543	566.0
240	191.25	.35000	650.00	.5470-01	.3970-01	.6570-01	.9278	.2199-02	.3641-02	.2730	1.825	557.0
240	191.25	.36000	651.00	.5720-01	.4150-01	.6860-01	.9278	.2300-02	.3802-02	.2860	1.920	556.7
240	191.25	.37000	652.00	.6450-01	.4690-01	.7740-01	.9278	.2597-02	.4288-02	.3240	2.166	556.4
240	191.25	.37500	653.00	.6120-01	.4420-01	.7370-01	.9278	.2448-02	.4084-02	.3010	2.015	558.3
240	191.25	.38000	654.00	.6220-01	.4510-01	.7490-01	.9278	.2497-02	.4149-02	.3080	2.068	557.6
240	191.25	.38500	655.00	.6120-01	.4410-01	.7390-01	.9278	.2442-02	.4091-02	.2980	1.996	559.1
240	191.25	.39000	656.00	.6660-01	.4770-01	.8090-01	.9278	.2643-02	.4481-02	.3170	2.121	561.2
240	191.25	.39500	657.00	.7320-01	.5210-01	.8930-01	.9278	.2886-02	.4944-02	.3410	2.280	563.0
240	191.25	.40000	658.00	.7850-01	.5540-01	.9630-01	.9278	.3067-02	.5337-02	.3550	2.375	565.5
240	191.25	.40500	659.00	.8940-01	.6260-01	.1105	.9278	.3465-02	.6119-02	.3930	2.629	567.7
240	191.25	.41000	660.00	.1006	.6990-01	.1251	.9278	.3871-02	.6928-02	.4310	2.875	569.7
240	191.25	.41500	661.00	.1275	.8820-01	.1590	.9278	.4888-02	.8806-02	.5400	3.588	570.6
240	191.25	.42000	662.00	.1552	.1042	.1983	.9278	.5772-02	.1098-01	.5980	3.971	577.5
240	191.25	.42500	663.00	.1732	.1147	.2239	.9278	.6355-02	.1240-01	.6410	4.262	580.3
240	191.25	.43000	664.00	.2099	.1335	.2815	.9278	.7393-02	.1559-01	.6910	4.623	587.6
240	191.25	.44000	665.00	.2355	.1487	.3179	.9278	.8234-02	.1761-01	.7610	5.052	588.7
240	191.25	.45000	666.00	.2025	.1371	.2569	.9278	.7592-02	.1423-01	.8010	5.352	575.7
240	191.25	.45500	667.00	.1803	.1240	.2259	.9278	.6869-02	.1251-01	.7490	5.017	572.1
240	191.25	.46000	668.00	.1569	.1088	.1953	.9278	.6024-02	.1082-01	.6680	4.495	570.1
240	191.25	.47000	669.00	.1245	.8710-01	.1539	.9278	.4824-02	.8525-02	.5470	3.691	567.8
240	191.25	.48000	670.00	.1312	.9170-01	.1622	.9278	.5079-02	.8984-02	.5740	3.879	568.0
240	191.25	.49000	671.00	.1609	.1082	.2055	.9278	.5991-02	.1138-01	.6220	4.168	577.3
240	191.25	.50000	672.00	.1570	.1060	.1997	.9278	.5873-02	.1106-01	.6160	4.219	576.3
240	191.25	.60000	673.00	.9700-01	.6880-01	.1185	.9278	.3813-02	.6564-02	.4480	2.845	563.8
240	191.25	.70000	674.00	.8470-01	.5910-01	.1046	.9278	.3272-02	.5806-02	.3[illegible]	2.481	568.4
240	191.25	.85000	676.00	.9780-01	.6690-01	.1229	.9278	.3708-02	.6806-02	.	2.498	573.1
240	191.25	.86000	677.00	.1077	.7270-01	.1368	.9278	.4029-02	.7579-02	.4[illegible]30	2.665	576.1
240	191.25	.87000	678.00	.1068	.7130-01	.1371	.9278	.3950-02	.7596-02	.4050	2.568	578.7
240	191.25	.88000	679.00	.1152	7610-01	.1492	.9278	.4215-02	.8263-02	.4230	2.713	580.7
240	191.25	.89000	680.00	.1361	.8770-01	.1804	.9278	.4857-02	.9992-02	.4650	3.018	585.4
240	191.25	.90000	681.00	.1325	.8380-01	.1788	.9278	.4642-02	.9903-02	.4300	2.837	588.5
240	191.25	.91000	682.00	.5400-01	.3550-01	.7030-01	.9278	.1964-02	.3896-02	.1950	1.396	581.9
240	191.25	.92600	683.00	.1067	.6630-01	.1463	.9278	.3572-02	.8104-02	.3300	2.364	591.2
240	191.25	.95000	684.00	.4820-01	.3400-01	.5930-01	.9278	.1881-02	.3287-02	.2160	1.547	566.1
240	197.00	.33000	685.00	.5290-01	.3850-01	.6360-01	.9278	.2130-02	.3520-02	.2650	1.774	556.6
240	197.00	.34000	686.00	.5520-01	.4000-01	.6630-01	.9278	.2218-02	.3672-02	.2750	1.841	557.0
240	197.00	.35000	687.00	.5970-01	.4340-01	.7170-01	.9278	.2402-02	.3970-02	.2990	2.001	556.6
240	197.00	.36000	688.00	.6130-01	.4440-01	.7370-01	.9278	.2459-02	.4085-02	.3040	2.031	557.5
240	197.00	.37000	689.00	.6050-01	.4390-01	.7260-01	.9278	.2433-02	.4023-02	.3030	2.025	556.7
240	197.00	.37500	690.00	.6960-01	.5020-01	.8410-01	.9278	.2778-02	.4658-02	.3390	2.268	559.3
240	197.00	.50000	691.00	.2216	.1355	.3087	.9278	.7507-02	.1710-01	.6580	4.322	593.5

DATE 03 JUN 76 AEDC V41A-A4A (1H-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F41)

(1H41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
240	197.00	.60000	692.00	.1056	.7340-01	.1311	.9278	.4064-02	.7264-02	.4540	2.893	569.5
240	197.00	.70000	693.00	.8410-01	.5730-01	.1061	.9278	.3175-02	.5876-02	.3400	2.272	574.1
240	197.00	.80000	694.00	.3960-01	.2820-01	.4830-01	.9278	.1564-02	.2673-02	.1860	1.157	562.5
240	197.00	.87000	695.00	.1016	.6780-01	.1306	.9278	.3754-02	.7232-02	.3840	2.408	578.9
240	197.00	.92600	696.00	.1382	.8360-01	.1946	.9278	.4632-02	.1078-01	.4000	2.855	594.9
242	209.80	.15000-01	697.00	.2561	.1852	.3071	.9283	.1024-01	.1698-01	.0000	.0000	539.9
241	209.80	.30000-01	698.00	.2472	.1768	.2418	.9528	.9802-02	.1341-01	1.172	7.918	561.4
241	209.80	.50000-01	699.00	.3346	.2352	.3394	.9483	.1304-01	.1882-01	1.496	9.414	566.4
241	209.80	.70000-01	700.00	.4198	.2669	.4572	.9428	.1480-01	.2535-01	1.384	9.168	587.5
241	209.80	.10000+00	701.00	.1978	.1411	.2222	.9363	.7820-02	.1232-01	.9280	5.870	582.3
241	209.80	.15000	702.00	.9710-01	.7000-01	.1151	.9297	.3883-02	.6381-02	.4750	3.376	558.7
241	209.80	.20000	703.00	.5080-01	.3790-01	.5990-01	.9278	.2104-02	.3319-02	.2820	1.881	546.8
241	209.80	.30000	704.00	.5330-01	.3920-01	.6330-01	.9278	.2173-02	.3512-02	.2800	1.981	552.0
241	209.80	.37500	706.00	.8940-01	.6490-01	.1073	.9278	.3599-02	.5950-02	.4480	3.059	556.6
241	209.80	.50000	707.00	.1573	.1097	.1948	.9278	.6079-02	.1080-01	.6840	4.629	568.6
241	209.8.	.60000	708.00	.8070-01	.5930-01	.9610-01	.9278	.3287-02	.5328-02	.4220	2.681	552.7
241	209.80	.70000	709.00	.4390-01	.3180-01	.5250-01	.9278	.1764-02	.2913-02	.2200	1.394	556.4
241	209.80	.80000	710.00	.4610-01	.3370-01	.5520-01	.9278	.1866-02	.3063-02	.2350	1.456	555.2
241	209.80	.87000	711.00	.1238	.8660-01	.1529	.9278	.4802-02	.8479-02	.5440	3.405	567.7
241	209.80	.92600	712.00	.9100-01	.6200-01	.1148	.9278	.3438-02	.6366-02	.3670	2.635	574.1
241	209.80	.15000-01	713.00	.1474	.1086	.1752	.9278	.6019-02	.9712-02	.7780	5.347	551.7
241	217.70	.30000-01	714.00	.2274	.1641	.2234	.9524	.9095-02	.1238-01	1.111	7.515	558.8
241	217.70	.50000-01	715.00	.3095	.2201	.3147	.9479	.1220-01	.1745-01	1.440	9.317	563.1
241	217.70	.70000-01	716.00	.3870	.2547	.4197	.9425	.1412-01	.2327-01	1.406	9.430	581.5
241	217.70	.10000+00	717.00	.2143	.1522	.2419	.9361	.8436-02	.1341-01	.9910	6.371	563.6
241	217.70	.15000	718.00	.9950-01	.7170-01	.1183	.9296	.3977-02	.6560-02	.4840	3.523	559.2
241	217.70	.20000	719.00	.4980-01	.3730-01	.5850-01	.9278	.2068-02	.3241-02	.2810	1.894	545.2
241	217.70	.30000	720.00	.5820-01	.4270-01	.6930-01	.9278	.2367-02	.3842-02	.3030	2.163	552.9
241	217.70	.35000	721.00	.8020-01	.5870-01	.9580-01	.9278	.3257-02	.5311-02	.4140	2.859	553.9
241	217.70	.37500	722.00	.1017	.7320-01	.1230	.9278	.4058-02	.6822-02	.4920	3.391	559.7
241	217.70	.50000	723.00	.1286	.9150-01	.1569	.9278	.5073-02	.8696-02	.5990	4.102	563.0
241	217.70	.70000	725.00	.4590-01	.3340-01	.5510-01	.9278	.1851-02	.3053-02	.2310	1.461	556.2
241	217.70	.80000	726.00	.4550-01	.3310-01	.5460-01	.9278	.1836-02	.3025-02	.2300	1.436	556.0
241	217.70	.87000	727.00	.8730-01	.6170-01	.1071	.9278	.3420-02	.5937-02	.3970	2.513	565.1
241	217.70	.92600	728.00	.8890-01	.5940-01	.1139	.9278	.3295-02	.6316-02	.3390	2.425	578.2

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = 10.00 BETA = .0000 GRIT = 6.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
243	3.510	4.790	9.970	.0000	.0000	57.00	.7370	681.0	196.6	6.355	2412.	.3144-03
244	3.510	4.768	9.970	.0000	.0000	56.70	.7330	681.0	196.6	6.325	2412.	.3130-03
245	3.510	4.768	9.970	.0000	.0000	56.70	.7330	681.0	196.6	6.325	2412.	.3129-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
243	.1583-06	.5538-01	.9287-02
244	.1583-06	.5525-01	.9309-02
245	.1583-06	.5525-01	.9309-02

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	UDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
244	.00000	.30000-02	730.00	.4874	.3110	.3433	.9870	.1718-01	.1897-01	1.617	10.88	587.0
244	.00000	.10300-01	731.00	.2722	.1959	.3210	.9305	.1082-01	.1773-01	1.315	9.001	559.6
244	.00000	.15000-01	732.00	.2521	.1846	.2940	.9305	.1020-01	.1624-01	1.298	8.803	553.8
244	.00000	.20000-01	733.00	.3162	.2227	.2428	.9860	.1231-01	.1342-01	1.418	9.641	565.9
244	.00000	.25000-01	734.00	.6455	.3878	.4450	.9839	.2143-01	.2459-01	1.828	12.13	595.8
244	.00000	.30000-01	735.00	1.082	.5350	.6530	.9821	.2956-01	.3608-01	1.992	13.19	613.7
244	.00000	.40000-01	737.00	.7474	.4548	.5366	.9805	.2513-01	.2965-01	2.186	13.93	594.1
244	.00000	.45000-01	738.00	.7275	.4458	.5342	.9786	.2463-01	.2952-01	2.167	14.02	593.1
244	.00000	.60000-01	739.00	.7134	.3804	.5080	.9731	.2102-01	.2807-01	1.533	9.997	608.1
244	.00000	.70000-01	740.00	.6798	.3724	.5141	.9695	.2057-01	.2841-01	1 550	10.18	605.8
244	.00000	.80000-01	741.00	.5839	.3270	.4662	.9661	.1807-01	.2576-01	1.398	9.883	603.7
244	.00000	.10000+00	742.00	.4202	.2666	.3785	.9596	.1473-01	.2091-01	1.372	8.983	587.9
244	.00000	.12500	743.00	.3301	.1993	.3209	.9522	.1101-01	.1773-01	.9470	6.719	595.1
244	.00000	.15000	744.00	.2817	.1826	.2955	.9457	.1009-01	.1632-01	.9770	6.664	584.3
244	.00000	.17500	745.00	.2072	.1390	.2293	.9402	.7679-02	.1267-01	.7940	5.878	577.6
244	.00000	.20000	746.00	.1612	.1122	.1844	.9356	.6199-02	.1019-01	.6940	4.913	569.1
244	.00000	.21500	747.00	.1453	.1013	.1698	.9334	.5598-02	.9382-02	.6300	4.316	568.6
244	.00000	.23000	748.00	.1257	.8730-01	.1501	.9315	.4822-02	.8294-02	.5370	3.925	569.7

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F42)

IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
244	.00000	.24000	749.00	.1124	.7840-01	.1353	.9305	.4334-02	.7477-02	.4880	3.642	568.4
244	.00000	.25000	750.00	.6640-01	.4720-01	.7890-01	.9305	.2608-02	.4358-02	.3080	2.467	563.2
244	.00000	.30000	751.00	.1044	.7360-01	.1246	.9305	.4069-02	.6887-02	.4710	3.061	565.4
244	.00000	.40000	753.00	.1090	.7780-01	.1292	.9305	.4298-02	.7136-02	.5120	3.266	562.0
244	.00000	.50000	754.00	.9970-01	.7010-01	.1194	.9305	.3871-02	.6599-02	.4430	2.872	566.6
244	.00000	.60000	755.00	.8690-01	.6190-01	.1031	.9305	.3422-02	.5697-02	.4060	2.581	562.5
244	.00000	.70000	756.00	.7680-01	.5410-01	.9200-01	.9305	.2987-02	.5081-02	.3430	2.244	566.2
244	.00000	.80000	757.00	.7350-01	.5120-01	.8870-01	.9305	.2827-02	.4899-02	.3170	1.961	569.1
244	.00000	.90000	758.00	.3170-01	.2150-01	.3900-01	.9305	.1188-02	.2155-02	.1250	.7990	575.6
244	55.000	.22000	759.00	.9500-01	.6860-01	.1143	.9300	.3792-02	.6313-02	.4520	3.341	561.8
244	55.000	.25000	760.00	.5030-01	.3640-01	.6020-01	.9287	.2010-02	.3327-02	.2470	1.921	558.3
244	55.000	.27000	761.00	.6200-01	.4420-01	.7480-01	.9287	.2442-02	.4133-02	.2900	2.141	562.3
244	55.000	.30000	762.00	.8500-01	.6130-01	.1018	.9287	.3385-02	.5626-02	.4130	2.469	559.1
244	55.000	.32000	763.00	.1072	.7650-01	.1294	.9287	.4228-02	.7148-02	.5030	2.952	562.1
244	55.000	.34000	764.00	.1402	.9880-01	.1708	.9287	.5459-02	.9438-02	.6290	3.698	565.8
244	55.000	.36000	765.00	.1444	.1024	.1750	.9287	.5659-02	.9669-02	.6630	3.952	563.9
244	55.000	.38000	766.00	.1549	.1084	.1896	.9287	.5990-02	.1048-01	.6800	4.088	567.6
244	55.000	.40000	767.00	.2008	.1361	.2520	.9287	.7519-02	.1392-01	.7940	4.893	575.4
244	67.500	.23000	768.00	.8950-01	.6440-01	.1074	.9286	.3555-02	.5936-02	.4310	3.186	559.8
244	67.500	.25000	769.00	.4630-01	.3360-01	.5550-01	.9282	.1859-02	.3065-02	.2310	1.789	556.8
244	67.500	.27000	770.00	.6160-01	.4430-01	.7430-01	.9282	.2448-02	.4104-02	.2970	2.151	559.8
244	67.500	.29000	771.00	.5700-01	.4120-01	.6840-01	.9282	.2278-02	.3778-02	.2810	1.729	557.9
244	67.500	.30000	772.00	.1023	.7230-01	.1248	.9282	.3996-02	.6897-02	.4650	2.814	564.8
244	67.500	.31000	773.00	.1269	.8920-01	.1556	.9282	.4928-02	.8599-02	.5650	3.390	566.5
244	67.500	.32000	774.00	.1493	.1041	.1842	.9282	.5751-02	.1018-01	.6470	3.847	568.6
244	67.500	.32500	775.00	.1603	.1114	.1982	.9282	.6157-02	.1095-01	.6880	4.100	569.4
244	67.500	.33000	776.00	.1720	.1175	.2157	.9282	.6491-02	.1192-01	.6970	4.157	573.7
244	67.500	.33500	777.00	.2227	.1494	.2834	.9282	.8257-02	.1566-01	.8550	5.087	577.6
244	67.500	.34000	778.00	.2123	.1412	.2721	.9282	.7801-02	.1503-01	.7930	4.717	579.4
244	67.500	.34500	779.00	.2170	.1419	.2821	.9282	.7841-02	.1559-01	.7720	4.596	582.6
244	67.500	.35000	780.00	.2269	.1478	.2959	.9282	.8168-02	.1635-01	.7980	4.765	583.3
244	67.500	.36000	782.00	.2434	.1587	.3171	.9282	.8770-02	.1752-01	.8590	5.140	583.2
244	67.500	.36500	783.00	.2338	.1553	.3001	.9282	.8578-02	.1658-01	.8690	5.198	579.7
244	67.500	.37000	784.00	.2133	.1429	.2717	.9282	.7894-02	.1501-01	.8140	4.900	577.9
244	67.500	.37500	785.00	.2184	.1461	.2785	.9282	.8074-02	.1539-01	.8310	5.041	578.2
244	67.500	.38000	786.00	.2163	.1445	.2763	.9282	.7983-02	.1526-01	.8190	4.979	578.5
244	67.500	.39000	787.00	.2196	.1471	.2799	.9282	.8126-02	.1546-01	.8380	5.111	578.0
244	67.500	.40000	788.00	.1915	.1303	.2407	.9282	.7200-02	.1330-01	.7680	4.731	574.4
244	67.500	.50000	789.00	.1195	.8240-01	.1487	.9282	.4553-02	.8215-02	.5000	3.164	571.3
244	67.500	.60000	790.00	.1233	.8560-01	.1526	.9282	.4727-02	.8432-02	.5260	3.413	569.8
245	67.500	.70000	791.00	.1060	.7250-01	.1328	.9282	.4007-02	.7339-02	.4320	3.008	573.4
245	67.500	.80000	792.00	.1087	.7530-01	.1347	.9282	.4161-02	.7442-02	.4620	2.868	570.1
245	67.500	.90000	793.00	.3890-01	.2550-01	.5060-01	.9282	.1406-02	.2795-02	.1380	.8770	582.6

DATE 03 JUN 76

AEDC V41A-A4A (1H-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F42)

1H41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
245	78.000	.27000	794.00	.5260-01	.3800-01	.6340-01	.9279	.2098-02	.3503-02	.2570	1.820	558.7
245	78.000	.29000	795.00	.9420-01	.6660-01	.1153	.9279	.3677-02	.6369-02	.4270	2.608	564.9
245	78.000	.30000	796.00	.1566	.1071	.1968	.9279	.5919-02	.1087-01	.6380	3.816	573.4
245	78.000	.31000	797.00	.2112	.1363	.2789	.9279	.7533-02	.1541-01	.7240	4.303	585.1
245	78.000	.32000	798.00	.2760	.1701	.3808	.9279	.9397-02	.2104-01	.8340	4.915	592.4
245	78.000	.32500	799.00	.3156	.1929	.4391	.9279	.1066-01	.2426-01	.9330	5.511	593.6
245	78.000	.33000	800.00	.3660	.2161	.5277	.9279	.1194-01	.2916-01	.9930	5.854	597.9
245	78.000	.33500	801.00	.4198	.2444	.6147	.9279	.1350-01	.3396-01	1.101	6.482	599.6
245	78.000	.34000	802.00	.3957	.2377	.5602	.9279	.1313-01	.3095-01	1.120	6.609	595.8
245	78.000	.34500	803.00	.3313	.2112	.4425	.9279	.1167-01	.2445-01	1.096	6.510	587.2
245	78.000	.35000	804.00	.2873	.1887	.3736	.9279	.1043-01	.2064-01	1.034	6.161	581.9
245	78.000	.35500	805.00	.2490	.1680	.3164	.9279	.9282-02	.1748-01	.9720	5.804	576.4
245	78.000	.36000	806.00	.2350	.1583	.2992	.9279	.8744-02	.1653-01	.9120	5.458	576.9
245	78.000	.37000	808.00	.2008	.1351	.2559	.9279	.7462-02	.1414-01	.7760	4.672	577.1
245	78.000	.37500	809.00	.1904	.1287	.2416	.9279	.7109-02	.1335-01	.7470	4.497	576.1
245	78.000	.38000	810.00	.1739	.1192	.2181	.9279	.6585-02	.1205-01	.7130	4.326	572.8
245	78.000	.39000	811.00	.1576	.1088	.1966	.9279	.6014-02	.1086-01	.6620	4.028	571.1
245	78.000	.40000	812.00	.3545	.2133	.5012	.9279	.1178-01	.2769-01	1.007	6.056	565.6
245	90.000	.24000	814.00	.4850-01	.3540-01	.5810-01	.9278	.1958-02	.3207-02	.2470	1.992	554.9
245	90.000	.27000	816.00	.4320-01	.3160-01	.5160-01	.9278	.1743-02	.2853-02	.2200	1.560	554.7
245	90.000	.29000	817.00	.1502	.9960-01	.1940	.9278	.5502-02	.1072-01	.5560	3.398	580.1
245	90.000	.30000	818.00	.2656	.1621	.3706	.9278	.8957-02	.2047-01	.7830	4.676	593.7
245	90.000	.31000	819.00	.2934	.1824	.4021	.9278	.1008-01	.2221-01	.9070	5.377	591.1
245	90.000	.32000	820.00	.3221	.2022	.4371	.9278	.1117-01	.2415-01	1.023	6.051	589.6
245	90.000	.32500	821.00	.3596	.2195	.5019	.9278	.1213-01	.2773-01	1.060	6.242	593.7
245	90.000	.33000	822.00	.4065	.2383	.5921	.9278	.1317-01	.3271-01	1.083	6.382	598.8
245	90.000	.34000	824.00	.3876	.2437	.5253	.9278	.1346-01	.2903-01	1.235	7.289	589.4
245	90.000	.34500	825.00	.3916	.2421	.5396	.9278	.1337-01	.2981-01	1.193	7.051	591.9
245	90.000	.35000	826.00	.4816	.2610	.7710	.9278	.1442-01	.4260-01	1.072	6.291	606.8
245	90.000	.36500	829.00	.2847	.1829	.3782	.9278	.1010-01	.2090-01	.9620	5.704	585.9
245	90.000	.37000	830.00	.2014	.1381	.2528	.9278	.7628-02	.1397-01	.8260	4.945	572.8
245	90.000	.37500	831.00	.1615	.1129	.1998	.9278	.6235-02	.1104-01	.7050	4.250	568.1
245	90.000	.38000	832.00	.1176	.8410-01	.1427	.9278	.4649-02	.7885-02	.5570	3.371	561.3
245	90.000	.39000	833.00	.8230-01	.5990-01	.9860-01	.9278	.3308-02	.5450-02	.4140	2.539	556.0
245	90.000	.40000	834.00	.7380-01	.5390-01	.8820-01	.9278	.2977-02	.4875-02	.3760	2.315	554.8
245	90.000	.50000	835.00	.6680-01	.4760-01	.8140-01	.9278	.2628-02	.4497-02	.3110	1.949	562.8
245	90.000	.60000	836.00	.6680-01	.4800-01	.8080-01	.9278	.2653-02	.4463-02	.3220	2.128	559.9
245	90.000	.70000	837.00	.7890-01	.5540-01	.9720-01	.9278	.3061-02	.5369-02	.3500	2.441	566.7
245	90.000	.80000	838.00	.8760-01	.6180-01	.1075	.9278	.3414-02	.5941-02	.3950	2.430	565.5
245	90.000	.90000	839.00	.7930-01	.5310-01	.1016	.9278	.2932-02	.5613-02	.3020	1.900	578.2
245	112.50	.23000	840.00	.3660-01	.2660-01	.4580-01	.9278	.1578-02	.2831-02	.2060	1.657	550.6
245	112.50	.25000	841.00	.1870-01	.1390-01	.2210-01	.9278	.7671-03	.1222-02	.1010	.7850	548.9
245	112.50	.30000	843.00	.7320-01	.5360-01	.8730-01	.9278	.2961-02	.4824-02	.3770	2.235	553.8

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F42)

(IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
245	112.50	.33000	844.00	.1295	.9300-01	.1569	.9278	.5138-02	.8667-02	.6200	3.715	560.4
245	112.50	.35000	845.00	.1028	.7480-01	.1732	.9278	.4134-02	.6806-02	.5180	3.159	555.9
245	112.50	.37000	846.00	.6070-01	.4500-01	.7180-01	.9278	.2486-02	.3966-02	.3280	2.017	549.3
245	112.50	.40000	847.00	.1550-01	.1170-01	.1820-01	.9278	.6455-03	.1007-02	.8800-01	.5520	544.1
245	112.50	.45000	848.00	.1540-01	.1150-01	.1810-01	.9278	.6361-03	.1002-02	.8600-01	.5380	546.4
245	112.50	.50000	849.00	.1900-01	.1400-01	.2270-01	.9278	.7723-03	.1253-02	.9900-01	.6340	553.0
245	112.50	.55000	850.00	.3200-01	.2330-01	.3840-01	.9278	.1289-02	.2120-02	.1620	1.076	555.7
245	112.50	.60000	851.00	.6900-01	.5000-01	.8300-01	.9276	.2763-02	.4588-02	.3420	2.277	557.5
245	112.50	.65000	852.00	.4500-01	.3280-01	.5400-01	.9278	.1810-02	.2985-02	.2260	1.531	556.2
245	112.50	.70000	853.00	.4780-01	.3430-01	.5800-01	.9278	.1893-02	.3202-02	.2280	1.587	560.8
245	112.50	.75000	854.00	.3820-01	.2730-01	.4640-01	.9278	.1508-02	.2565-02	.1800	1.159	561.8
245	112.50	.80000	855.00	.5570-01	.3960-01	.6780-01	.9278	.2189-02	.3748-02	.2590	1.670	562.9
245	112.50	.90000	856.00	.7850-01	.5400-01	.9840-01	.9278	.2984-02	.5435-02	.3250	2.084	572.1
245	112.50	.84000	857.00	.7150-01	.5050-01	.8760-01	.9278	.2792-02	.4839-02	.3250	1.988	564.8
245	125.40	.85000	858.00	.8070-01	.5700-01	.9880-01	.9278	.3151-02	.5461-02	.3660	2.256	564.8
245	125.40	.86000	859.00	.7760-01	.5460-01	.9540-01	.9278	.3017-02	.5270-02	.3470	2.154	566.1
245	125.40	.87000	860.00	.8070-01	.5680-01	.9930-01	.9278	.3137-02	.5486-02	.3600	2.243	566.3
245	125.40	.88000	861.00	.7710-01	.5390-01	.9540-01	.9278	.2980-02	.5269-02	.3370	2.098	567.9
245	125.40	.89000	862.00	.9080-01	.6300-01	.1131	.9278	.3479-02	.6246-02	.3860	2.412	571.9
245	125.40	.90000	863.00	.6990-01	.4810-01	.8750-01	.9278	.2658-02	.4835-02	.2900	1.822	571.7
245	125.40	.91000	864.00	.6680-01	.4600-01	.8350-01	.9278	.2542-02	.4615-02	.2780	1.998	564.3
245	125.40	.92600	865.00	.1375	.8910-01	.1811	.9278	.4922-02	.1001-01	.4760	3.388	563.0
245	129.30	.80000	866.00	.4400-01	.3130-01	.5370-01	.9278	.1731-02	.2966-02	.2040	1.274	563.2
245	129.30	.81000	867.00	.4870-01	.3460-01	.5940-01	.9278	.1912-02	.3281-02	.2250	1.397	563.5
245	129.30	.82000	868.00	.5530-01	.3930-01	.6750-01	.9278	.2169-02	.3728-02	.2550	1.580	565.4
245	129.30	.83000	869.00	.6120-01	.4320-01	.7510-01	.9278	.2388-02	.4152-02	.2760	1.716	566.6
245	135.00	.40000-01	870.00	.2845	.1999	.2811	.9514	.1105-01	.1553-01	1.265	8.056	568.7
245	135.00	.50000-01	871.00	.3459	.2412	.3509	.9484	.1332-01	.1939-01	1.498	8.473	581.4
245	135.00	.70000-01	873.00	.3336	.2197	.3600	.9429	.1214-01	.1989-01	1.211	8.098	565.1
245	135.00	.10000+00	875.00	.1888	.1334	.2128	.9364	.7371-02	.1176-01	.8550	5.563	560.1
245	135.00	.15000	976.00	.1037	.7450-01	.1232	.9298	.4117-02	.6806-02	.4980	3.622	550.5
245	135.00	.20000	877.00	.5270-01	.3900-01	.6250-01	.9278	.2153-02	.3453-02	.2810	1.892	550.2
245	135.00	.35000	878.00	.5710-01	.4230-01	.6770-01	.9278	.2336-02	.3741-02	.3060	1.897	549.8
245	135.00	.40000	879.00	.4790-01	.3550-01	.5670-01	.9278	.1961-02	.3135-02	.2570	1.629	553.3
245	135.00	.50000	880.00	.2890-01	.2120-01	.3450-01	.9278	.1172-02	.1905-02	.1500	1.025	554.6
245	135.00	.55000	881.00	.3010-01	.2200-01	.3600-01	.9278	.1216-02	.1989-02	.1540	1.021	557.3
245	135.00	.60000	882.00	.5320-01	.3860-01	.6400-01	.9278	.2132-02	.3536-02	.2640	1.765	556.9
245	135.00	.65000	883.00	.5920-01	.4300-01	.7120-01	.9278	.2376-02	.3933-02	.2950	2.003	559.4
245	135.00	.70000	884.00	.4140-01	.2980-01	.5010-01	.9276	.1648-02	.2766-02	.2010	1.417	563.5
245	135.00	.75000	885.00	.4150-01	.2950-01	.5070-01	.9278	.1628-02	.2799-02	.1910	1.196	562.3
245	135.00	.80000	886.00	.5270-01	.3760-01	.6410-01	.9278	.2077-02	.3542-02	.2470	1.539	244.7
245	135.00	.84000	887.00	.7590-01	.5980-01	.9460-01	.9130	.2678-02	.4234-02	.0000	.0000	566.7
243	180.00	.40000-01	600.00	.2266	.1591	.2312	.9476	.8811-02	.1281-01	1.008	6.416	

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F42)

IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	:W DEG. R
243	180.00	.50000-01	601.00	.2496	.1736	.2616	.9447	.9614-02	.1449-01	1.075	6.857	569.3
243	180.00	.60000-01	602.00	.2311	.1576	.2495	.9421	.8726-02	.1392-01	.9340	6.135	574.1
243	180.00	.70000-01	603.00	.766	.1830	.3091	.9397	.1013-01	.1712-01	1.020	6.841	580.5
243	180.00	.80000-01	604.00	.2785	.1835	.3197	.9376	.1016-01	.1770-01	1.014	6.483	581.3
243	180.00	.10000+00	605.00	.1263	.8980-01	.1453	.9340	.4972-02	.8045-02	.5850	4.166	563.4
243	180.00	.15000	606.00	.6890-01	.4950-01	.8270-01	.9287	.2740-02	.4579-02	.3310	2.394	560.2
243	180.00	.20000	607.00	.4070-01	.2980-01	.4860-01	.9278	.1649-02	.2691-02	.2100	1.362	559.1
243	180.00	.21000	608.00	.3090-01	.2270-01	.3680-01	.9278	.1255-02	.2039-02	.1610	1.106	558.2
243	180.00	.22000	609.00	.2540-01	.1860-01	.3030-01	.9278	.1028-02	.1678-02	.1310	.9680	557.1
243	180.00	.30000	610.00	.4470-01	.3260-01	.5360-01	.9278	.1803-02	.2970-02	.2260	1.538	556.0
243	180.00	.36000	612.00	.5320-01	.3840-01	.6410-01	.9278	.2129-02	.3552-02	.2610	1.746	559.4
243	180.00	.37500	614.00	.8240-01	.5850-01	.1006	.9278	.3243-02	.5572-02	.3810	2.543	563.5
243	180.00	.38000	615.00	.9530-01	.6690-01	.1173	.9278	.3708-02	.6497-02	.4250	2.827	566.6
243	180.00	.38500	616.00	.1138	.7890-01	.1416	.9278	.4370-02	.7843-02	.4850	3.225	570.0
243	180.00	.39000	617.00	.1458	.9950-01	.1838	.9278	.5513-02	.1018-01	.5920	3.911	573.8
243	180.00	.39500	618.00	.1630	.1098	.2077	.9278	.6083-02	.1150-01	.6350	4.216	575.8
243	180.00	.40000	619.00	.1866	.1247	.2393	.9278	.6905-02	.1326-01	.7090	4.675	578.5
243	180.00	.40500	620.00	.1950	.1301	.2505	.9278	.7205-02	.1387-01	.7370	4.876	578.8
243	180.00	.41000	621.00	.2131	.1412	.2755	.9278	.7819-02	.1526-01	.7890	5.214	580.2
243	180.00	.41500	622.00	.2165	.1426	.2812	.9278	.7900-02	.1557-01	.7880	5.192	581.3
243	180.00	.42500	624.00	.2549	.1635	.3392	.9278	.9054-02	.1878-01	.8600	5.648	586.2
243	180.00	.43000	625.00	.2673	.1706	.3572	.9278	.9447-02	.1978-01	.8890	5.858	587.0
243	180.00	.44000	626.00	.2078	.1361	.2713	.9278	.7535-02	.1503-01	.7430	4.907	582.5
243	180.00	.44500	627.00	.1712	.1153	.2181	.9278	.6396-02	.1208-01	.6660	4.452	576.8
243	180.00	.45000	628.00	.1329	.9190-01	.1658	.9278	.5088-02	.9181-02	.5610	3.762	570.8
243	180.00	.45500	629.00	.9710-01	.6890-01	.1187	.9278	.3816-02	.6576-02	.4470	3.053	564.0
243	180.00	.46000	630.00	.8250-01	.5910-01	.1000+00	.9278	.3275-02	.5540-02	.3940	2.630	560.8
243	180.00	.47000	631.00	.8550-01	.6040-01	.1049	.9278	.3345-02	.5808-02	.3980	2.583	565.2
243	180.00	.48000	632.00	.1383	.9760-01	.1740	.9278	.5237-02	.9638-02	.5640	3.763	573.4
243	180.00	.49000	633.00	.1595	.1081	.1999	.9278	.5986-02	.1107-01	.6410	4.313	574.1
243	180.00	.50000	634.00	.1325	.9170-01	.1652	.9278	.5079-02	.9148-02	.5620	3.882	570.6
243	180.00	.55000	635.00	.1023	.7170-01	.1262	.9278	.3972-02	.6991-02	.4520	2.973	567.2
243	180.00	.60000	636.00	.9500-01	.6800-01	.1174	.9278	.3767-02	.6502-02	.4400	2.815	564.2
243	180.00	.65000	637.00	.8180-01	.5640-01	.9960-01	.9278	.3234-02	.5514-02	.3850	2.469	562.2
243	180.00	.66000	638.00	.8570-01	.3970-01	.6780-01	.9278	.2198-02	.3756-02	.2610	1.769	562.6
243	180.00	.70000	639.00	.1670-01	.1200-01	.2030-01	.9278	.0619-03	.1124-02	.7900-01	.5070	561.5
243	180.00	.75000	640.00	.7760-01	.5440-01	.9560-01	.9278	.3014-02	.5295-02	.3740	2.134	567.0
243	180.00	.80000	641.00	.1015	.6960-01	.1274	.9278	.3857-02	.7057-02	.4180	2.639	572.7
243	180.00	.85000	642.00	.1130	.7700-01	.1425	.9278	.4266-02	.7894-02	.4570	2.887	574.1
243	180.00	.87000	643.00	.1244	.8380-01	.1585	.9278	.4643-02	.8776-02	.4840	3.076	576.8
243	180.00	.88000	644.00	.1413	.9440-01	.1814	.9278	.5227-02	.1005-01	.5360	3.430	578.6
243	180.00	.89000	645.00	.1551	.1027	.2006	.9278	.5686-02	.1111-01	.5730	3.706	580.4
243	180.00	.90000	646.00	.1298	.8700-01	.1662	.9278	.4817-02	.9203-02	.4970	3.290	577.9

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F42)

IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
243	180.00	.95000	649.00	.3260-01	.2270-01	.4040-01	.9278	.1255-02	.2240-02	.1400	1.003	569.2
243	191.25	.35000	650.00	.5710-01	.4130-01	.6870-01	.9278	.2289-02	.3805-02	.2830	1.889	557.7
243	191.25	.36000	651.00	.6170-01	.4450-01	.7450-01	.9278	.2467-02	.4124-02	.3020	2.023	558.7
243	191.25	.37000	652.00	.7630-01	.5620-01	.9500-01	.9278	.3110-02	.5259-02	.3740	2.498	560.8
243	191.25	.37500	653.00	.9230-01	.6550-01	.1128	.9278	.3629-02	.6248-02	.4260	2.846	563.8
243	191.25	.38000	654.00	.1082	.7610-01	.1331	.9278	.4214-02	.7373-02	.4840	3.228	566.4
243	191.25	.39500	655.00	.1295	.9000-01	.1616	.9278	.4984-02	.8949-02	.5530	3.666	570.1
243	191.25	.39000	656.00	.1693	.1147	.2146	.9278	.6355-02	.1169-01	.6720	4.463	575.4
243	191.25	.39500	657.00	.2044	.1361	.2630	.9278	.7539-02	.1457-01	.7690	5.097	579.2
243	191.25	.40000	658.00	.2363	.1547	.3087	.9278	.8567-02	.1710-01	.8440	5.609	582.5
243	191.25	.40500	659.00	.2535	.1646	.3335	.9278	.9116-02	.1847-01	.8850	5.876	584.0
243	191.25	.41000	660.00	.2729	.1769	.3596	.9278	.9796-02	.1992-01	.9480	6.272	584.3
243	191.25	.41500	661.00	.2770	.1821	.3606	.9278	.1008-01	.1997-01	1.001	6.614	581.8
243	191.25	.42000	662.00	.3225	.2038	.4349	.9278	.1129-01	.2409-01	1.044	6.895	588.6
243	191.25	.42500	663.00	.3406	.2106	.4692	.9278	.1166-01	.2598-01	1.040	6.879	591.9
243	191.25	.43000	664.00	.3558	.2120	.5090	.9278	.1174-01	.2819-01	.9900	6.588	595.8
243	191.25	.44000	665.00	.2486	.1618	.3263	.9278	.8961-02	.1807-01	.8740	5.821	583.6
243	191.25	.45000	666.00	.1569	.1093	.1946	.9278	.6052-02	.1078-01	.6790	4.553	569.0
243	191.25	.45500	667.00	.1401	.9630-01	.1727	.9278	.5442-02	.9566-02	.6210	4.169	567.0
243	191.25	.46000	669.00	.1289	.9050-01	.1589	.9278	.5011-02	.8801-02	.5730	3.853	565.9
243	191.25	.47000	669.00	.1410	.9760-01	.1757	.9278	.5404-02	.9731-02	.5980	4.030	570.5
243	191.25	.48000	670.00	.1546	.1057	.1945	.9278	.5855-02	.1077-01	.6310	4.248	573.4
243	191.25	.49000	671 00	.1782	.1212	.2252	.9278	.6714-02	.1247-01	.7150	4.797	574.6
243	191.25	.50000	672.00	.1741	.1187	.2197	.9278	.6571-02	.1217-01	.7030	4.818	574.2
243	191.25	.60000	673.00	.7340-01	.5270-01	.8890-01	.9278	.2918-02	.4924-02	.3520	2.242	560.4
243	191.25	.70000	674.00	.9230-01	.6450-01	.1141	.9278	.3571-02	.6318-02	.4040	2.719	568.0
243	191.25	.85000	676 00	.1164	.7950-01	.1465	.9278	.4405-02	.8114-02	.4740	2.956	573.5
243	191.25	.86000	677.00	.1180	.7990-01	.1497	.9278	.4425-02	.8292-02	.4670	2.949	575.7
243	191.25	.87000	678.00	.1338	.8950-01	.1714	.9278	.4956-02	.9493-02	.5100	3.237	578.2
243	191.25	.88000	679.00	.1464	.9720-01	.1868	.9278	.5383-02	.1046-01	.5450	3.497	579.8
243	191.25	.89000	680.00	.1647	.1086	.2137	.9278	.6016-02	.1183-01	.6020	3.917	581.1
243	191.25	.89000	681.00	.1492	.9850-01	.1934	.9278	.5453-02	.1071-01	.5460	3.620	580.9
243	191.25	.90000	682.00	.1086	.7320-01	.1385	.9278	.4056-02	.7664-02	.4230	3.038	576.8
243	191.25	.91000	683.00	.1474	.9660-01	.1925	.9278	.5349-02	.1066-01	.5280	3.795	582.4
243	191.25	.92600	684.00	.4200-01	.2930-01	.5200-01	.9278	.1624-02	.2880-02	.1830	1.309	568.3
243	191.25	.95000	685.00	.5250-01	.3820-01	.6290-01	.9278	.2116-02	.3783-02	.2650	1.774	555.8
243	197.00	.33000	686.00	.5500-01	.4000-01	.6600-01	.9278	.2214-02	.3657-02	.2760	1.846	556.5
243	197.00	.34000	687.00	.5800-01	.4210-01	.6970-01	.9278	.2331-02	.3861-02	.2690	1.934	557.0
243	197.00	.35000	688.00	.7440-01	.5360-01	.8970-01	.9278	.2971-02	.4969-02	.3630	2.428	558.8
243	197.00	.36000	689.00	.8550-01	.6130-01	.1036	.9278	.3394-02	.5738-02	.4090	2.728	560.7
243	197.00	.37000	690.00	.1056	.7500-01	.1289	.9278	.4153-02	.7140-02	.4880	3.263	563.6
243	197.00	.37500	691.00	.2336	.1489	.3126	.9278	.8246-02	.1731-01	.7740	5.100	587.2
243	197.00	.50000	692.00	.8280-01	.5900-01	.1010	.9278	.3266-02	.5592-02	.3860	2.469	562.9
243	197.00	.60000										

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F42)

(IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
243	197.00	.70000	693.00	.1363	.9330-01	.1713	.9278	.5168-02	.9488-02	.5580	3.735	573.1
243	197.00	.80000	694.00	.6170-01	.4320-01	.7620-01	.9278	.2394-02	.4222-02	.2720	1.691	567.6
243	197.00	.87000	695.00	.1335	.8950-01	.1708	.9278	.4966-02	.9451-02	.5120	3.212	577.9
243	197.00	.92600	696.00	.1460	.9630-01	.1894	.9278	.5333-02	.1049-01	.5340	3.838	581.1
245	209.80	.15000-01	697.00	.2561	.1852	.3071	.9293	.1024-01	.1658-01	.0000	.0000	539.9
244	209.80	.30000-01	698.00	.2444	.1731	.2431	.9506	.8568-02	.1343-01	.116	7.525	564.4
244	209.80	.50000-01	699.00	.3299	.2321	.3408	.9463	.1271-01	.1883-01	.431	8.999	568.5
244	209.80	.70000-01	700.00	.4030	.2539	.4609	.9411	.1403-01	.2486-01	.292	8.551	569.0
244	209.80	.10000-00	701.00	.2061	.1457	.2354	.9350	.6351-02	.1300-01	.9350	5.310	564.9
244	209.80	.15000	702.00	.1065	.7490-01	.1279	.9391	.4139-02	.7923-02	.4850	3.444	563.7
244	209.80	.20000	703.00	.4730-01	.3510-01	.5590-01	.9278	.1938-02	.3085-02	.2665	1.536	568.8
244	209.80	.30000	704.00	.4670-01	.3440-01	.5540-01	.9278	.1920-02	.3062-02	.2480	1.740	551.5
244	209.80	.37500	705.00	.7120-01	.5190-01	.8320-01	.9278	.2880-02	.4707-02	.3610	2.489	555.2
244	209.80	.50000	707.00	.1311	.9610-01	.1546	.9278	.5304-02	.8931-02	.6910	3.886	556.9
244	209.80	.60000	708.00	.8060-01	.5880-01	.9470-01	.9278	.3244-02	.5345-02	.4040	2.664	558.2
244	209.80	.80000	710.00	.5710-01	.4170-01	.6880-01	.9278	.2298-02	.3785-02	.2860	2.343	571.1
244	209.80	.87000	711.00	.8060-01	.6190-01	.9119	.9278	.3671-02	.6164-02	.3760	2.346	571.1
244	209.80	.92600	712.00	.9410-01	.6830-01	.1092	.9278	.3618-02	.6511-02	.3630	2.695	571.1
244	209.80	.15000-01	713.00	.1491	.1109	.1890	.9278	.6-[illegible]-02	.[illegible]-01	.6160	[illegible]	571.1
244	217.70	.30000-01	714.00	.[illegible]	.1709	.2550	.9816	.94[illegible]	.1215-01	[illegible]03	[illegible]	571.1
244	217.70	.50000-01	715.00	.34[illegible]	.[illegible]42	.[illegible]867	.9[illegible]	.1[illegible]6-01	.[illegible]-01	.[illegible]8[illegible]	[illegible]	571.1
244	217.70	.70000-01	716.00	.[illegible]066	.[illegible]772	.[illegible]838	.[illegible]20	.1[illegible]6-01	.[illegible]-01	.[illegible]	[illegible]	571.1
244	217.70	.10000+00	717.00	.2[illegible]38	.1826	.2[illegible]75	.[illegible]957	.6881-02	.[illegible]-02	.[illegible]6150	[illegible]	571.1
244	217.70	.15000	719.00	.1082	.7810-01	.1[illegible]07	.[illegible]184	.43[illegible]-02	.[illegible]-02	.[illegible]	[illegible]	571.1
244	217.70	.20000	719.00	.[illegible]5e+0-01	.4[illegible]80-01	.7[illegible]00-01	.[illegible]972	.2[illegible]5-02	.[illegible]-02	.[illegible]	[illegible]	571.1
244	217.70	.30000	720.00	.[illegible]6120-01	.[illegible]770-01	.[illegible]040-01	.[illegible]9278	.[illegible]03-02	.[illegible]-02	.[illegible]	[illegible]	571.1
244	217.70	.35000	721.00	.[illegible]6010-01	.[illegible]370-01	.[illegible]640-01	.[illegible]9278	.[illegible]-02	.[illegible]-02	.[illegible]	[illegible]	571.1
244	217.70	.37500	722.00	.[illegible]4530-01	.[illegible]3370-01	.[illegible]6330-01	.[illegible]9278	.[illegible]-02	.[illegible]-02	.[illegible]	[illegible]	571.1
244	217.70	.50000	723.00	.[illegible]7470-01	.[illegible]5-60-01	.[illegible]9040-01	.[illegible]9278	.[illegible]-02	.[illegible]-02	.[illegible]	[illegible]	571.1
244	217.70	.70000	725.00	.[illegible]93+0-01	.[illegible]4280-01	.[illegible]0170-01	.[illegible]9278	.[illegible]-02	.[illegible]-02	.[illegible]	[illegible]	571.1
244	217.70	.85000	726.00	.[illegible]6[illegible]-01	.[illegible]4317-01	.[illegible]8+30-01	.[illegible]9278	.[illegible]-02	.[illegible]-02	.[illegible]	[illegible]	571.1
244	217.70	.87000	727.00	.1136	.[illegible]7900-01	.1[illegible]10	.[illegible]9278	.[illegible]-02	.[illegible]-02	.[illegible]	[illegible]	571.1
244	217.70	.92600	728.00	.[illegible]80[illegible]-01	.[illegible]6510-01	.[illegible]1020	.9278	.[illegible]-02	.[illegible]-02	.[illegible]	[illegible]	571.1

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F43)

IIN1(AEDC V4;A-A4A) O T S (CONFIG 2) TANK DATA

EXTERNAL TANK

PARAMETRIC DATA

ALPHA = 10.00 BETA = -3.000 GRIT = 6.000 RN/L = 5.000

•••TEST CONDITIONS•••

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
246	3.510	4.789	9.980	2.800	-16.00	57.00	.7370	681.0	196.6	6.353	2412.	.3143-03
247	3.510	4.778	9.980	2.800	-16.00	55.90	.7350	681.0	196.6	6.338	2412.	.3136-03
248	3.510	4.774	9.980	2.800	-16.00	56.80	.7340	681.0	196.6	6.333	2412.	.3134-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
246	.1583-06	.5537-01	.9288-02
247	.1583-06	.5531-01	.9299-02
248	.1583-06	.5529-01	.9303-02

•••TEST DATA•••

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TC) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
247	.00000	.30000-02	730.00	.4873	.3103	.3427	.9870	.1716-01	.1895-01	1.609	10.83	587.4
247	.00000	.10000-01	731.00	.2762	.1984	.3260	.9305	.1097-01	.1803-01	1.328	9.085	560.1
247	.00000	.15000-01	732.00	.2747	.2002	.3214	.9305	.1107-01	.1777-01	1.391	9.425	555.5
247	.00000	.20000-01	733.00	.3776	.2504	.2854	.9859	.1440-01	.1579-01	1.579	10.71	571.4
247	.00000	.25000-01	734.00	.7096	.4157	.4802	.9838	.2299-01	.2656-01	1.895	12.56	598.7
247	.00000	.30000-01	735.00	1.128	.5499	.6743	.9820	.3041-01	.3729-01	2.021	13.37	614.7
247	.00000	.40000-01	737.00	.7358	.4466	.5279	.9804	.2470-01	.2920-01	2.140	13.64	594.5
247	.00000	.45000-01	738.00	.7092	.4353	.5219	.9785	.2408-01	.2887-01	2.123	13.74	592.9
247	.00000	.60000-01	739.00	.6739	.3604	.4814	.9730	.1993-01	.2662-01	1.459	9.512	607.9
247	.00000	.70000-01	740.00	.6426	.3541	.4882	.9694	.1959-01	.2700-01	1.486	9.759	605.3
247	.00000	.80000-01	741.00	.5680	.3229	.4571	.9660	.1786-01	.2528-01	1.409	9.969	602.2
247	.00000	.10000+00	742.00	.4414	.2773	.3968	.9595	.1534-01	.2195-01	1.405	9.191	589.5
247	.00000	.12500	743.00	.3322	.2014	.3233	.9521	.1114-01	.1788-01	.9630	6.838	594.6
247	.00000	.15000	744.00	.2746	.1789	.2879	.9457	.9894-02	.1592-01	.9670	6.600	583.4
247	.00000	.17500	745.00	.2037	.1370	.2254	.9402	.7575-02	.1246-01	.7870	5.827	577.2
247	.00000	.20000	746.00	.1600	.1115	.1829	.9356	.6168-02	.1011-01	.6930	4.905	568.7
247	.00000	.21500	747.00	.1423	.9940-01	.1661	.9334	.5497-02	.9186-02	.6210	4.258	568.1
247	.00000	.23000	748.00	.1201	.8350-01	.1433	.9315	.4617-02	.7927-02	.5160	3.770	569.4

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7F43)

IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
247	.00000	.24000	749.00	.1130	.7890-01	.1360	.9305	.4362-02	.7522-02	.4920	3.668	568.4
247	.00000	.25000	750.00	.6080-01	.4300-01	.7250-01	.9305	.2380-02	.4009-02	.2770	2.224	564.6
247	.00000	.30000	751.00	.1038	.7330-01	.1239	.9305	.4051-02	.6854-02	.4690	3.050	565.3
247	.00000	.40000	753.00	.1066	.7610-01	.1264	.9305	.4207-02	.6989-02	.5000	3.192	562.2
247	.00000	.50000	754.00	.1105	.7670-01	.1334	.9305	.4243-02	.7377-02	.4730	3.060	569.6
247	.00000	.60000	755.00	.1009	.7110-01	.1207	.9305	.3931-02	.6674-02	.4530	2.876	565.9
247	.00000	.70000	756.00	.8880-01	.6140-01	.1074	.9305	.3398-02	.5940-02	.3760	2.453	570.5
247	.00000	.80000	757.00	.3870-01	.6710-01	.1209	.9305	.3709-02	.6687-02	.3940	2.437	574.8
247	.00000	.90000	758.00	.5420-01	.3540-01	.6830-01	.9305	.1959-02	.3777-02	.1930	1.224	582.7
247	55.000	.22000	759.00	.1080	.7620-01	.1278	.9314	.4217-02	.7069-02	.4890	3.602	565.3
247	55.000	.25000	760.00	.5900-01	.4200-01	.7070-01	.9295	.2322-02	.3909-02	.2750	2.133	562.9
247	55.000	.27000	761.00	.6660-01	.4650-01	.8080-01	.9295	.2571-02	.4467-02	.2910	2.110	568.0
247	55.000	.30000	762.00	.9780-01	.6970-01	.1171	.9295	.3854-02	.6477-02	.4570	2.725	562.6
247	55.000	.32000	763.00	.1233	.8720-01	.1485	.9295	.4821-02	.8213-02	.5600	3.286	564.9
247	55.000	.34000	764.00	.1565	.1091	.1904	.9295	.6033-02	.1053-01	.6780	3.979	568.7
247	55.000	.36000	765.00	.1616	.1127	.1966	.9295	.6232-02	.1087-01	.7010	4.169	568.6
247	55.000	.38000	766.00	.1928	.1305	.2397	.9295	.7216-02	.1326-01	.7600	4.554	575.8
247	55.000	.40000	767.00	.2373	.1570	.3000	.9295	.8685-02	.1659-01	.8750	5.375	580.4
247	67.500	.23000	768.00	.1054	.7490-01	.1264	.9296	.4142-02	.6993-02	.4870	3.594	563.5
247	67.500	.25000	769.00	.5150-01	.3680-01	.6200-01	.9289	.2036-02	.3427-02	.2430	1.874	561.9
247	67.500	.27000	770.00	.6750-01	.4760-01	.8190-01	.9289	.2631-02	.4531-02	.3040	2.194	565.7
247	67.500	.29000	771.00	.6620-01	.4720-01	.7980-01	.9289	.2610-02	.4412-02	.3090	1.903	562.6
247	67.500	.30000	772.00	.1192	.8320-01	.1458	.9289	.4601-02	.8064-02	.5190	3.136	568.4
247	67.500	.31000	773.00	.1401	.9720-01	.1720	.9289	.5379-02	9515-02	.5990	3.590	569.7
247	67.500	.32000	774.00	.1669	.1146	.2066	.9289	.6340-02	.1142-01	.6900	4.094	572.3
247	67.500	.32500	775.00	.1718	.1173	.2137	.9289	.6489-02	.1182-01	.6970	4.143	573.8
247	67.500	.33000	776.00	.1930	.1289	.2441	.9289	.7131-02	.1350-01	.7320	4.354	578.5
247	67.500	.33500	777.00	.2293	.1500	.2952	.9289	.8296-02	.1633-01	.8170	4.849	582.7
247	67.500	.34000	778.00	.2532	.1633	.3297	.9289	.9031-02	.1823-01	.8660	5.138	585.2
247	67.500	.34500	779.00	.2667	.1685	.3535	.9289	.9322-02	.1955-01	.8630	5.121	588.6
247	67.500	.35000	780.00	2711	.1713	.3595	.9289	.9474-02	.1989-01	.8760	5.215	588.6
247	67.500	.36000	782.00	.2634	.1699	.3431	.9289	.9396-02	.1898-01	.9010	5.387	585.2
247	67.500	.36500	783.00	.2411	.1590	.3081	.9289	.8795-02	.1704-01	.8800	5.257	581.1
247	67.500	.37000	784.00	.2170	.1448	.2749	.9289	.8007-02	.1520-01	.8190	4.925	578.8
247	67.500	.37500	785.00	.2161	.1442	.2735	.9289	.7977-02	.1513-01	.8170	4.955	578.7
247	67.500	.38000	786.00	.2129	.1420	.2696	.9289	.7855-02	.1491-01	.8040	4.887	578.8
247	67.500	.39000	787.00	.2224	.1486	.2813	.9289	.8218-02	.1556-01	.8430	5.144	578.5
247	67.500	.40000	788.00	.1942	.1320	.2423	.9289	.7302-02	.1340-01	.7770	4.787	574.7
247	67.500	.50000	789.00	.1064	.7300-01	.1320	.9289	.4035-02	.7301-02	.4370	2.764	572.9
247	67.500	.60000	790.00	.1160	.8000-01	.1433	.9289	4424-02	.7924-02	.4850	3.143	571.5
248	67.500	.70000	791.00	.1050	.7040-01	.1325	.9289	.3893-02	.7330-02	.4020	2.796	577.9
248	67.500	.80000	792.00	.9680-01	.6520-01	.1217	.9289	.3606-02	.6733 02	.3760	2.327	576.9
248	67.500	.90000	793.00	.3320-01	.2100-01	.4400-01	.9289	.1160-02	.2433-02	.1070	.6780	588.6

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F43)

IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
248	78.000	.27000	794.00	.6740-01	.4770-01	.8210-01	.9284	.2638-02	.4544-02	.3070	2.166	564.9
248	78.000	.29000	795.00	.1069	.7430-01	.1318	.9284	.4107-02	.7292-02	4590	2.794	569.5
248	78.000	.30000	796.00	.1922	.1305	.2414	.9284	.7215-02	.13.5-01	.7660	4.576	575.0
248	78.000	.31000	797.00	.2554	.1622	.3396	.9284	.8969-02	.1878-01	.8370	4.972	587.8
248	78.000	.32000	798.00	.3297	.2004	.4571	.9284	.1108-01	.2527-01	.9620	5.663	594.3
248	78.000	.32500	799.00	.3572	.2163	.4970	.9284	.1196-01	.2746-01	1.033	6.096	594.8
248	78.000	.33000	800.00	.4087	.2405	.5855	.9284	.1330-01	.3237-01	1.101	6.485	598.3
248	78.000	.3350^	801.00	.4524	.2616	.6605	.9284	.1446-01	.3652-01	1.168	6.874	600.4
248	78.000	.34000	802.00	.3994	.2357	.5703	.9284	.1303-01	.3153-01	1.083	6.382	598.0
248	78.000	.34500	803.00	.3402	.2144	.4555	.9284	.1186-01	.2518-01	1.092	6.483	589.0
248	78.000	.35000	804.00	.2976	.1939	.3870	.9284	.1072-01	.2140-01	1.048	6.236	583.4
248	78.000	.35500	805.00	.2492	.1682	.3145	.9284	.9300-02	.1739-01	.9750	5.823	576.3
248	78.000	.36000	806.00	.2264	.1534	.2850	.9284	.8481-02	.1576-01	.8950	5.365	575.5
248	78.000	.37000	808.00	.2051	.1380	.2597	.9284	.7629-02	.1436-01	.7940	4.778	577.1
248	78.000	.37500	809.00	.1908	.1287	.2411	.9284	.7116-02	.1333-01	.7450	4.483	576.5
248	78.000	.38000	810.00	.1819	.1243	.2274	.9284	.6871-02	.1257-01	.7390	4.480	573.6
248	78.000	.39000	811.00	.1710	.1179	2123	.9284	.6519-02	.1174-01	.7150	4.354	571.4
248	78.000	.40000	812.00	.3658	.2177	.5179	.9284	.1203-01	.2863-01	1.01C	6.084	597.0
248	90.000	.24000	814.00	.6200-01	.4490-01	.7440-01	.9280	.2482-02	.4114-02	.3070	2.468	557.5
248	90.000	.27000	816.00	.5610-01	.4060-01	.6740-01	.9280	.2245-02	.3729-02	.2770	1.955	557.9
248	90.000	.29000	817.00	.1967	.1289	.2560	.9280	.7128-02	.1415-01	.7040	4.300	582.3
248	90.000	.30000	818.00	.3127	.1883	.4407	.9280	.1041-01	.2437-01	.8920	5.319	595.5
248	90.000	.31000	819.00	.3279	.2016	.4527	.9280	.1115-01	.2503-01	.9850	5.838	592.7
248	90.000	.32000	820.00	.3431	.2150	.4651	.9280	.1189-01	.2571-01	1.084	6.412	589.9
248	90.000	.32500	821.00	.3[illegible]5	.2363	.5311	.9280	.1306-01	.2936-01	1.154	6.800	592.8
248	90.000	.33000	822.00	.4[illegible]9	.2498	.6174	.9280	.1381-01	.3413-01	1.137	6.700	598.8
248	90.000	.34000	824.00	.3854	.2380	.5242	.9280	.1316-01	.2898-01	1.182	6.971	591.3
248	90.000	.34500	825.00	.3802	.2379	.5158	.9280	.1315-01	.2852-01	1.197	7.082	590.1
248	90.000	.35000	826.00	.4634	.2538	.7279	.9280	.1403-01	.4024-01	1.056	6.201	605.8
248	90.000	.36500	829.00	.2775	.1759	.3719	.9280	.9725-02	.2056-01	.9050	5.359	588.1
248	90.000	.37000	830.00	.2078	.1419	.2611	.9280	.7844-02	.1443-01	.8430	5.040	573.7
248	90.000	.37500	831.00	.1702	.1183	.2110	.9280	.6538-02	.1167-01	.7290	4.395	569.6
248	90.000	.38000	832.00	.1251	.8890-01	.1524	.9280	.4916-02	.8426-02	.5790	3.499	563.4
248	90.000	.39000	833.00	.8850-01	.6430-01	.1062	.9280	.3553-02	.5871-02	.4410	2.705	556.9
248	90.000	.40000	834.00	.7720-01	.5620-01	.9230-01	.9280	.3109-02	.5102-02	.3900	2.401	555.6
248	90.000	.50000	835.00	.7510-01	.5330-01	.9140-01	9280	.2950-02	.5054-02	.3470	2.177	563.3
248	90.000	.60000	836.00	.6910-01	.4930-01	.8390-01	.9280	.2728-02	.4637-02	.3250	2.148	562.0
248	90.000	.70000	837.00	.6910-01	.4820-01	.8530-01	.9280	.2665-02	.4716-02	.3000	2.092	568.4
248	90.000	.80000	838.00	.7290-01	.5140-01	.8940-01	.9280	.2842-02	.4943-02	.3280	2.018	565.7
248	90.000	.90000	839.00	.9320-01	.6280-01	.1183	.9280	.3474-02	.6540-02	.3630	2.288	576.5
248	112.50	.23000	840.00	.4780-01	.3510-01	.5690-01	.9273	.1942-02	.3146-02	.2500	2.006	552.6
248	112.50	.25000	841.00	.2830-01	.2090-01	.3350-01	.9278	.1158-02	.1854-02	.1520	1.173	550.2
248	112.50	.30000	843.00	.9450-01	.6850-01	.1136	.9278	.3789-02	.6279-02	.4700	2.781	557.1

IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA (RV7F43)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
248	112.50	.33000	844.00	.1458	.1024	.1753	.9278	.5660-02	.9690-02	.6690	4.003	562.9
248	112.50	.35000	845.00	.1117	.8100-01	.1344	.9278	.4477-02	.7429-02	.5540	3.377	557.4
248	112.50	.37000	846.00	.6590-01	.4870-01	.7820-01	.9278	.2690-02	.4322-02	.3510	2.156	550.8
248	112.50	.40000	847.00	.1630-01	.1220-01	.1910-01	.9278	.6770-03	.1058-02	.9300-01	.5770	544.4
248	112.50	.45000	848.00	.1210-01	.9100-02	.1430-01	.9278	.5014-03	.7882-03	.6800-01	.4260	546.0
248	112.50	.50000	849.00	.2310-01	.1680-01	.2760-01	.9278	.9312-03	.1527-02	.1170	.7510	555.1
248	112.50	.55000	850.00	.4270-01	.3080-01	.5140-01	.9278	.1705-02	.2842-02	.2090	1.392	558.2
248	112.50	.60000	851.00	.8340-01	.5970-01	.1013	.9278	.3302-02	.5602-02	.3960	2.631	561.3
248	112.50	.65000	852.00	.1014	.7180-01	.1240	.9278	.3969-02	.6857-02	.4640	3.126	564.3
248	112.50	.70000	853.00	.6830-01	.4830-01	.8370-01	.9278	.2669-02	.4627-02	.3100	2.157	564.9
248	112.50	.75000	854.00	.4900-01	.3460-01	.6020-01	.9278	.1913-02	.3326-02	.2210	1.423	565.4
248	112.50	.80000	855.00	.6270-01	.4450-01	.7670-01	.9278	.2461-02	.4239-02	.2880	1.860	563.9
248	112.50	.90000	856.00	.8740-01	.6010-01	.1096	.9278	.3322-02	.6060-02	.3620	2.316	572.3
248	125.40	.84000	857.00	.1059	.7430-01	.1305	.9279	.4109-02	.7214-02	.4690	2.872	566.9
248	125.40	.85000	858.00	.1012	.7100-01	.1247	.9278	.3924-02	.6894-02	.4480	2.755	567.0
248	125.40	.86000	859.00	.7700-01	.5420-01	.9470-01	.9278	.2997-02	.5234-02	.3450	2.140	566.0
248	125.40	.87000	860.00	.8470-01	.5940-01	.1045	.9278	.3282-02	.5779-02	.3730	2.323	567.3
248	125.40	.88000	861.00	.8560-01	.5970-01	.1059	.9278	.3301-02	.5856-02	.3720	2.313	568.4
248	125.40	.89000	862.00	.9670-01	.6660-01	.1205	.9278	.3684-02	.6662-02	.4050	2.531	571.1
248	125.40	.90000	863.00	.9850-01	.6750-01	.1237	.9278	.3733-02	.6840-02	.4040	2.536	572.8
248	125.40	.91000	864.00	.7360-01	.5060-01	.9220-01	.9278	.2797-02	.5096-02	.3050	2.189	572.1
248	125.40	.92600	865.00	.1320	.8590-01	.1733	.9278	.4750-02	.9581-02	.4630	3.296	583.6
248	129.30	.80000	866.00	.5040-01	.3570-01	.6170-01	.9278	.1975-02	.3409-02	.2310	1.438	564.2
248	129.30	.81000	867.00	.5160-01	.3660-01	.6310-01	.9278	.2022-02	.3488-02	.2370	1.465	564.1
248	129.30	.82000	868.00	.5440-01	.3860-01	.6650-01	.9278	.2135-02	.3675-02	.2500	1.552	563.8
248	129.30	.83000	869.00	.6120-01	.4290-01	.7550-01	.9278	.2372-02	.4176-02	.2700	1.675	564.3
248	135.00	.40000-01	870.00	.3320	.2310	.3203	.9542	.1277-01	.1771-01	1.430	9.092	569.2
248	135.00	.50000-01	871.00	.3860	.2644	.3824	.9510	.1462-01	.2114-01	1.581	9.978	572.9
248	135.00	.70000-01	873.00	.3643	.2381	.3833	.9453	.1316-01	.2119-01	1.295	8.650	582.8
248	135.00	.10000+00	875.00	.2025	.1428	.2243	.9384	.7894-02	.1240-01	.9120	5.926	565.6
248	135.00	.15000	876.00	.1121	.7990-01	.1326	.9308	.4415-02	.7332-02	.5230	3.797	562.7
248	135.00	.20000	877.00	.6080-01	.4470-01	.7240-01	.9279	.2469-02	.4003-02	.3170	2.128	552.9
248	135.00	.35000	878.00	.5650-01	.4170-01	.6700-01	.9278	.2305-02	.3704-02	.3000	1.862	550.9
248	135.00	.40000	879.00	.3190-01	.2370-01	.3770-01	.9278	.1313-02	.2084-02	.1740	1.105	548.2
248	135.00	.50000	880.00	.1160-01	.8500-02	.1380-01	.9278	.4723-03	.7636-03	.6100-01	.4170	552.2
248	135.00	.55000	881.00	.3420-01	.2480-01	.4120-01	.9278	.1370-02	.2277-02	.1690	1.121	557.6
248	135.00	.60000	882.00	.8240-01	.5870-01	.1004	.9278	.3248-02	.5551-02	.3850	2.567	562.6
248	135.00	.65000	883.00	.6240-01	.4460-01	.7590-01	.9278	.2466-02	.4195-02	.2940	1.992	561.8
248	135.00	.70000	884.00	.4840-01	.3440-01	.5920-01	.9278	.1900-02	.3274-02	.2220	1.568	564.0
248	135.00	.75000	885.00	.3560-01	.2510-01	.4380-0	.9278	.1395-02	.2421-02	.1590	.9940	566.2
248	135.00	.80000	886.00	.4480-01	.3190-01	.5460-01	.9278	.1762-02	.3018-02	.2080	1.298	562.9
248	135.00	.84000	887.00	.7590-01	.5980-01	.9460-01	.9130	.2678-02	.4234-02	.0000	.0000	244.7
246	180.00	.40000-01	600.00	.2367	.1689	.2414	.9476	.9355-02	.1337-01	1.113	7.099	562.2

IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
246	180.00	.50000-01	601.00	.2568	.1814	.2686	.9447	.1004-01	.1488-01	1.165	7.441	565.2
246	180.00	.60000-01	602.00	.2535	.1744	.2732	.9421	.9655-02	.1513-01	1.053	6.927	572.0
246	180.00	.70000-01	603.00	.2899	.1946	.3226	.9397	.1078-01	.1786-01	1.116	7.500	577.5
246	180.00	.80000-01	604.00	.3011	.2004	.3442	.9375	.1110-01	.1906-01	1.130	7.232	579.3
246	180.00	.10000+00	605.00	.1523	.1092	.1744	.9339	.6047-02	.9657-02	.7280	5.186	560.8
246	180.00	.15000	606.00	.7950-01	.5760-01	.9490-01	.9287	.3190-02	.5252-02	.3950	2.855	557.4
246	180.00	.20000	607.00	.4440-01	.3290-01	.5250-01	.9278	.1823-02	.2906-02	.2410	1.568	549.1
246	180.00	.21000	608.00	.3410-01	.2530-01	.4020-01	.9278	.1403-02	.2228-02	.1860	1.286	548.3
246	180.00	.22000	609.00	.2590-01	.1920-01	.3060-01	.9278	.1066-02	.1697-02	.1410	1.048	548.8
246	180.00	.30000	610.00	.3910-01	.2890-01	.4650-01	.9278	.1598-02	.2573-02	.2080	1.418	551.2
246	180.00	.36000	612.00	.5540-01	.4090-01	.6570-01	.9278	.2264-02	.3639-02	.2950	1.975	551.0
246	180.00	.37500	614.00	.9010-01	.6540-01	.1083	.9278	.3622-02	.5998-02	.4500	3.006	557.0
246	180.00	.38000	615.00	.1099	.7870-01	.1334	.9278	.4358-02	.7386-02	.5230	3.487	561.2
246	180.00	.39500	616.00	.1315	.9260-01	.1617	.9278	.5127-02	.8957-02	.5900	3.924	566.1
246	180.00	.39000	617.00	.1823	.1246	.2295	.9278	.6899-02	.1271-01	.7420	4.906	573.6
246	180.00	.39500	618.00	.2246	.1496	.2889	.9278	.8282-02	.1600-01	.8450	5.602	579.1
246	180.00	.40000	619.00	.2783	.1814	.3649	.9278	.'004-01	.2021-01	.9820	6.463	583.3
246	180.00	.40500	620.00	.3130	.2025	.4130	.9278	..121-01	.2287-01	1.082	7.134	584.6
246	180.00	.41000	621.00	.3300	.2121	.4383	.9278	.1174-01	.2427-01	1.119	7.375	585.8
246	180.00	.41500	622.00	.3325	.2132	.4424	.9278	.1180-01	.2450-01	1.120	7.361	586.2
246	180.00	.42500	624.00	.3206	.2019	.4338	.9278	.1118-01	.2402-01	1.029	6.748	589.1
246	180.00	.43000	625.00	.3200	.2013	.4334	.9278	.1115-01	.2400-01	1.024	6.735	589.3
246	180.00	.44000	626.00	.2946	.1906	.3887	.9278	.1055-01	.2153-01	1.018	6.714	584.6
245	180.00	.44500	627.00	.2256	.1515	.2880	.9278	.8392-02	.1595-01	.8710	5.817	577.3
246	180.00	.45000	628.00	.1698	.1179	.2111	.9278	.6526-02	.1169-01	.7270	4.872	569.8
246	180.00	.45500	629.00	.1255	.8940-01	.1529	.9278	.4952-02	.8467-02	.5870	4.008	562.7
246	180.00	.46000	630.00	.1061	.7650-01	.1282	.9278	.4237-02	.7098-02	.5170	3.454	559.1
246	180.00	.47000	631.00	.8290-01	.5980-01	.1000+00	.9278	.3310-02	.5539-02	.4050	2.703	558.9
246	180.00	.48000	632.00	.9020-01	.6420-01	.1100	.9278	.3555-02	.6092-02	.4200	2.815	563.0
246	180.00	.49000	633.00	.1257	.8790-01	.1554	.9278	.4867-02	.8606-02	.5510	3.720	567.9
246	180.00	.50000	634.00	.1258	.8830-01	.1552	.9278	.4887-02	.8592-02	.5570	3.859	567.1
246	180.00	.55000	635.00	.9290-01	.6590-01	.1135	.9278	.3649-02	.6288-02	.4280	2.816	563.9
246	180.00	.60000	636.00	.7890-01	.5730-01	.9490-01	.9278	.3171-02	.5253-02	.3930	2.523	557.1
246	180.00	.65000	637.00	.6090-01	.4440-01	.7290-01	.9278	.2460-02	.4039-02	.3090	1.993	555.3
246	180.00	.70000	638.00	.3760-01	.2710-01	.4530-01	.9278	.1501-02	.2510-02	.1840	1.250	558.7
246	180.00	.75000	639.00	.1360-01	.9700-02	.1650-01	.9278	.5382-03	.9121-03	.6500-01	.4130	561.1
246	180.00	.80000	640.00	.5790-01	.4110-01	.7080-01	.9278	.2276-02	.3919-02	.2670	1.658	563.9
246	180.00	.85000	641.00	.7210-01	.5020-01	.8930-01	.9278	.2782-02	.4946-02	.3130	1.955	568.7
246	180.00	.86000	642.00	.8080-01	.5600-01	.1007	.9278	.3099-02	.5576-02	.3430	2.173	570.4
246	180.00	.87000	643.00	.7910-01	.5380-01	.1000+00	.9278	.2981-02	.5539-02	.3170	2.019	574.6
246	180.00	.88000	644.00	.1008	.6750-01	.1291	.9278	.3736-02	.7150-02	.3850	2.464	578.1
246	180.00	.89000	645.00	.1211	.7930-01	.1581	.9278	.4393-02	.8757-02	.4330	2.803	582.4
246	180.00	.90000	646.00	.1052	.6870-01	.1376	.9278	.3805-02	.7620-02	.3740	2.468	582.9

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F43)

IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
246	180.00	.95000	649.00	.2240-01	.1560-01	.2770-01	.9278	.8645-03	.1532-02	.9800-01	.6970	568.2
246	191.25	.35000	650.00	.5310-01	.3920-01	.6300-01	.9278	.2173-02	.3489-02	.2830	1.899	550.8
246	191.25	.36000	651.00	.5830-01	.4310-01	.6920-01	.9278	.2385-02	.3831-02	.3110	2.091	550.8
246	191.25	.37000	652.00	.6910-01	.5070-01	.8240-01	.9278	.2806-02	.4560-02	.3590	2.403	553.3
246	191.25	.37500	653.00	.8100-01	.5890-01	.9710-01	.9278	.3261-02	.5378-02	.4070	2.734	556.2
246	191.25	.38000	654.00	.9700-01	.7000-01	.1170	.9278	.3875-02	.6479-02	.4740	3.178	558.7
246	191.25	.39500	655.00	.1146	.8160-01	.1396	.9278	.4521-02	.7728-02	.5360	3.583	562.6
246	191.25	.39000	656.00	.1527	.1067	.1889	.9278	.5911-02	.1046-01	.6680	4.459	568.0
246	191.25	.39500	657.00	.1802	.1237	.2251	.9278	.6850-02	.1252-01	.7440	4.950	572.5
246	191.25	.40000	658.00	.2173	.1463	.2769	.9278	.8101-02	.1533-01	.8450	5.625	576.9
246	191.25	.40500	659.00	.2491	.1656	.3210	.9278	.9168-02	.1777-01	.9310	6.194	579.6
246	191.25	.41000	660.00	.2757	.1814	.3586	.9278	.1004-01	.1985-01	1.000	6.623	581.6
246	191.25	.41500	661.00	.2837	.1886	.3657	.9278	.1044-01	.2025-01	1.060	7.009	579.6
246	191.25	.42000	662.00	.3388	.2148	.4556	.9278	.1190-01	.2523-01	1.107	7.310	588.1
246	191.25	.42500	663.00	.3621	.2243	.4980	.9278	.1242-01	.2757-01	1.112	7.351	591.6
246	191.25	.43000	664.00	.3786	.2269	.5384	.9278	.1256-01	.2981-01	1.068	7.110	596.1
246	191.25	.44000	665.00	.2920	.1910	.3815	.9278	.1058-01	.2112-01	1.042	6.942	582.6
246	191.25	.45000	666.00	.1772	.1252	.2172	.9278	.6935-02	.1203-01	.8050	5.413	565.0
246	191.25	.45500	667.00	.1425	.1021	.1728	.9278	.5652-02	.9569-02	.6790	4.573	561.0
246	191.25	.46000	668.00	.1183	.8540-01	.1428	.9278	.4727-02	.7905-02	.5780	3.909	558.8
246	191.25	.47000	669.00	.1019	.7360-01	.1228	.9278	.4074-02	.6802-02	.4990	3.388	558.5
246	191.25	.48000	670.00	.1183	.8340-01	.1453	.9278	.4616-02	.8044-02	.5330	3.601	565.7
246	191.25	.49000	671.00	.1988	.1362	.2499	.9278	.7540-02	.1384-01	.8150	5.469	573.1
246	191.25	.50000	672.00	.1740	.1188	.2193	.9278	.6578-02	.1214-01	.7060	4.842	573.8
246	191.25	.60000	673.00	.8150-01	.5940-01	.9770-01	.9278	.3289-02	.5408-02	.4130	2.634	555.6
246	191.25	.70000	674.00	.9850-01	.6940-01	.1211	.9278	.3841-02	.6705-02	.4420	2.979	566.0
246	191.25	.85000	676.00	.7200 01	.5020-01	.8920-01	.9278	.2779-02	.4939-02	.3120	1.953	568.7
246	191.25	.86000	677.00	.7370-01	.5080-01	.9210-01	.9278	.2814-02	.5100-02	.3090	1.949	571.4
246	191.25	.87000	678.00	.7600-01	.5170-01	.9610-01	.9278	.2862-02	.5323-02	.3040	1.936	574.8
246	191.25	.88000	679.00	.9650-01	.6480-01	.1234	.9278	.3587-02	.6833-02	.3710	2.386	577.6
246	191.25	.89000	680.00	.1251	.8240-01	.1625	.9278	.4564-02	.8999-02	.4560	2.964	581.3
246	191.25	.90000	681.00	.1383	.8940-01	.1825	.9278	.4953-02	.1010-01	.4780	3.161	584.6
246	191.25	.91000	682.00	.8430-01	.5510-01	.1101	.9278	.3053-02	.6095-02	.3010	2.156	582.6
246	191.25	.92600	683.00	.9250-01	.5910-01	.1235	.9278	.3273-02	.6839-02	.3090	2.214	586.8
246	191.25	.95000	684.00	.2440-01	.1700-01	.3010-01	.9278	.9428-03	.1809-02	.1070	.7610	568.1
246	197.00	.33000	685.00	.4920-01	.3640-01	.5820-01	.9278	.2017-02	.3222-02	.2650	1.779	549.7
246	197.00	.34000	686.00	.5410-01	.4000-01	.6410-01	.9278	.2214-02	.3551-02	.2890	1.941	550.5
246	197.00	.35000	687.00	.5900-01	.4360-01	.6990-01	.9278	.2415-02	.3868-02	.3160	2.121	550.2
246	197.00	.35000	688.00	.6290-01	.4630-01	.7480-01	.9278	.2565-02	.4143-02	.3310	2.219	552.0
246	197.00	.37000	689.00	.6700-01	.4920-01	.7970-01	.9278	.2725-02	.4415-02	.3500	2.346	552.7
246	197.00	.37500	690.00	.7740-01	.5620-01	.9290-01	.9278	.3113-02	.5144-02	.3880	2.602	556.5
246	197.00	.50000	691.00	.2234	.1416	.3004	.9278	.7941-02	.1663-01	.7300	4.804	588.1
246	197.00	.60000	692.00	.8660-01	.6230-01	.1047	.9278	.3452-02	.5798-02	.4190	2.687	559.6

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7F43)

IH41(AEDC V41A-A4A) O T S (CONFIG 2) TANK DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
246	197.00	.70000	693.00	.2150	.1488	.2679	.9278	.8242-02	.1484-01	.9120	6.111	570.5
246	197.00	.80000	694.00	.4200-01	.2590-01	.5120-01	.9278	.1654-02	.2835-02	.1950	1.216	563.1
246	197.00	.87000	695.00	.7750-01	.5260-01	.9810-01	.9278	.2912-02	.5432-02	.3090	1.939	575.1
245	197.00	.92600	696.00	.9720-01	.6140-01	.1312	.9278	.3401-02	.7267-02	.3140	2.253	588.7
248	209.80	.15000-01	697.00	.2561	.1852	.3071	.9283	.1024-01	.1698-01	.0000	.0000	539.9
247	209.80	.30000-01	698.00	.2309	.1641	.2333	.9487	.9076-02	.1290-01	1.069	7.210	563.4
247	209.80	.50000-01	699.00	.2700	.1909	.2827	.9446	.1056-01	.1563-01	1.227	7.729	564.8
247	209.80	.70000-01	700.00	.3518	.2291	.3960	.9396	.1267-01	.2190-01	1.237	8.211	583.5
247	209.80	.10000+00	701.00	.1789	.1275	.2057	.9339	.7052-02	.1138-01	.8360	5.285	562.6
247	209.80	.15000	702.00	.9310-01	.6680-01	.1120	.9286	.3692-02	.6194-02	.4440	3.156	560.8
247	209.80	.20000	703.00	.4700-01	.3500-01	.5550-01	.9278	.1934-02	.3068-02	.2570	1.713	548.1
247	209.80	.30000	704.00	.4970-01	.3640-01	.5920-01	.9278	.2015-02	.3275-02	.2570	1.818	553.3
247	209.80	.37500	706.00	.8910-01	.6440-01	.1073	.9278	.3561-02	.5937-02	.4380	2.987	558.2
247	209.80	.50000	707.00	.1387	.9580-01	.1730	.9278	.5301-02	.9567-02	.5850	3.954	570.8
247	209.80	.60000	708.00	.8090-01	.5870-01	.9710-01	.9278	.3248-02	.5372-02	.4040	2.562	556.8
247	209.80	.80000	710.00	.6120-01	.4350-01	.7460-01	.9278	.2409-02	.4125-02	.2850	1.760	562.9
247	209.80	.87000	711.00	.1046	.7210-01	.1308	.9278	.3985-02	.7233-02	.4370	2.725	571.6
247	209.80	.92600	712.00	.8580-01	.5780-01	.1092	.9278	.3199-02	.6038 02	.3350	2.397	576.5
247	217.70	.15000-01	713.00	.1393	.1022	.1660	.9278	.5652-02	.9180-02	.7230	4.966	553.1
247	217.70	.30000-01	714.00	.2254	.1602	.2268	.9493	.8861-02	.1254-01	1.043	7.037	563.4
247	217.70	.50000-01	715.00	.3051	.2158	.3180	.9451	.1194-01	.1759-01	1.390	8.987	564.7
247	217.70	.70000-01	716.00	.3507	.2243	.3951	.9400	.1240-01	.2185-01	1.172	7.839	585.6
247	217.70	.10000+00	717.00	.2050	.1440	.2367	.9342	.7967-02	.1309-01	.9120	5.857	566.6
247	217.70	.15000	718.00	.1025	.7340-01	.1233	.9288	.4059-02	.6822-02	.4860	3.533	561.3
247	217.70	.20000	719.00	.5210-01	.3880-01	.6140-01	.9278	.2147-02	.3395-02	.2870	1.937	547.3
247	217.70	.30000	720.00	.4830-01	.3560-01	.5750-01	.9278	.1966-02	.3183-02	.2530	1.805	552.5
247	217.70	.35000	721.00	.5950-01	.4370-01	.7080-01	.9278	.2417-02	.3917-02	.3110	2.146	552.7
247	217.70	.37500	722.00	.6820-01	.5000-01	.8130-01	.9278	.2767-02	.4496-02	.3540	2.444	553.2
247	217.70	.50000	723.00	.9330-01	.6720-01	.1127	.9278	.3717-02	.6234-02	.4530	3.108	559.3
247	217.70	.70000	725.00	.9390-01	.6730-01	.1139	.9278	.3723-02	.6298-02	.4480	2.827	560.8
247	217.70	.80000	726.00	.7250-01	.5150-01	.8860-01	.9278	.2846-02	.4902-02	.3340	2.079	563.9
247	217.70	.87000	727.00	.1316	.9110-01	.1640	.9278	.5041-02	.9070-02	.5580	3.525	570.4
247	217.70	.92600	728.00	.1048	.6920-01	.1359	.9278	.3826-02	.7516-02	.3830	2.739	580.9

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OF POOR QUALITY

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7C23)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) SRB DATA

SOLID ROCKET BSTR

PARAMETRIC DATA

ALPHA = .0000 BETA = .0000 GRIT = 4.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
201	3.510	4.798	.2000-01	.0000	.0000	57.10	.7390	681.0	196.7	6.370	2412.	.3150-03
202	3.510	4.824	.1000-01	.0000	.0000	57.20	.7390	679.0	196.1	6.376	2409.	.3163-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
201	.1584-06	.5545-01	.9279-02
202	.1579-06	.5545-01	.9257-02

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
202	.00000	.20000	1078.0	.4130-01	.3070-01	.4880-01	.9278	.1703-02	.2706-02	.2260	1.673	548.8
202	.00000	.40000	1079.0	.8300-01	.6100-01	.9880-01	.9278	.3383-02	.5481-02	.4350	3.101	553.0
202	.00000	.60000	1080.0	.7020-01	.4990-01	.8560-01	.9278	.2767-02	.4747-02	.3270	2.401	563.5
202	.00000	.70000	1081.0	.5620-01	.4000-01	.6860-01	.9278	.2218-02	.3805-02	.2620	1.976	563.5
202	.00000	.75000	1082.0	.1051	.6710-01	.1404	.9278	.3721-02	.7787-02	.3510	2.731	587.3
202	.00000	.80000	1083.0	.1258	.8630-01	.1578	.9278	.4738-02	.8751-02	.5200	3.872	572.8
202	.00000	.95300	1084.0	.9250-01	.6230-01	.1054	.9374	.3453-02	.5847-02	.3600	2.710	577.3
202	.00000	.96700	1085.0	.6750-01	.4450-01	.7760-01	.9374	.2465-02	.4305-02	.2460	1.850	581.6
202	.00000	.98000	1086.0	.7490-01	.5000-01	.8570-01	.9374	.2773-02	.4752-02	.2840	2.182	579.0
202	.00000	.99400	1087.0	.3960-01	.2660-01	.4510-01	.9374	.1473-02	.2502-02	.1530	1.116	577.7
202	45.000	.11500	1088.0	.1387	.9910-01	.1687	.9278	.5493-02	.9356-02	.6550	4.817	562.3
202	45.000	.14600	1089.0	.4860-01	.3640-01	.5710-01	.9278	.2018-02	.3165-02	.2740	2.032	545.8
202	45.000	.17700	1090.0	.7650-01	.5660-01	.9070-01	.9278	.3137-02	.5027-02	.4100	3.037	550.7
202	45.000	.60000	1091.0	.8810-01	.6470-01	.1050	.9278	.3589-02	.5824-02	.4600	3.403	553.2
202	45.000	.70000	1092.0	.7040-01	.5120-01	.8440-01	.9278	.2840-02	.4679-02	.3560	2.651	556.3
202	45.000	.80000	1093.0	.1061	.7460-01	.1306	.9278	.4134-02	.7242-02	.4740	3.480	566.8
202	76.000	.11500	1094.0	.1738	.1226	.2133	.9278	.6801-02	.1183-01	.7870	5.784	565.7
202	76.000	.12800	1095.0	.8610-01	.6370-01	.1021	.9278	.3531-02	.5662-02	.4620	3.417	550.8
202	76.000	.14600	1096.0	.1036	.7600-01	.1217	.9296	.3736-02	.5986-02	.4760	3.522	553.2
202	76.000	.20000	1097.0	.7460-01	.5520-01	.8850-01	.9278	.3060-02	.4906-02	.3930	2.955	549.2

(IH41(AEDC V41A-A4A) O T S (CONFIG 1) SRB DATA (RV7C23)

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
202	76.000	.40000	1098.0	.7820-01	.5810-01	.9250-01	.9278	.3222-02	.5127-02	.4250	3.003	547.4
202	76.000	.60000	1099.0	.6560-01	.4860-01	.7770-01	.9278	.2694-02	.4311-02	.3520	2.594	548.6
202	76.000	.80000	1100.0	.7800-01	.5600-01	.9450-01	.9278	.3104-02	.5239-02	.3730	2.753	559.1
202	76.000	.87500	1101.0	.6230-01	.4420-01	.7610-01	.9278	.2450-02	.4222-02	.2860	2.107	562.5
202	90.000	.50000-01	1102.0	.2918	.2065	.3279	.9367	.1145-01	.1818-01	1.331	9.786	563.2
202	90.000	.10000+00	1103.0	.2434	.1694	.2755	.9367	.9393-02	.1528-01	1.049	7.698	567.7
202	90.000	.11500	1104.0	.2084	.1345	.2756	.9278	.7460-02	.1528-01	.7150	5.205	583.6
202	90.000	.14600	1105.0	.8040-01	.5920-01	.9550-01	.9278	.3285-02	.5294-02	.4250	3.145	550.1
202	90.000	.95300	1110.0	.1907	.1345	.2133	.9374	.7460-02	.1183-01	.8600	6.321	564.1
202	90.000	.96700	1111.0	.1172	.8200-01	.1315	.9374	.4549-02	.7292-02	.5150	3.780	566.3
202	90.000	.98000	1112.0	.1198	.8310-01	.1348	.9374	.4609-02	.7476-02	.5120	3.753	568.4
202	90.000	.99400	1113.0	.1161	.8080-01	.1305	.9374	.4479-02	.7238-02	.5000	3.669	567.8
202	104.00	.11500	1114.0	.1746	.1220	.2159	.9278	.6766-02	.1197-01	.7630	5.604	566.6
202	104.00	.12800	1115.0	.8260-01	.6090-01	.9820-01	.9278	.3375-02	.5444-02	.4360	3.225	550.3
202	104.00	.14600	1116.0	.7250-01	.5370-01	.8590-01	.9278	.2977-02	.4759-02	.3900	2.890	548.4
202	104.00	.20000	1117.0	.6850-01	.5070-01	.8120-01	.9278	.2812-02	.4504-02	.3670	2.720	548.8
202	104.00	.40000	1118.0	.6580-01	.4920-01	.7730-01	.9278	.2729-02	.4287-02	.3690	2.614	544.4
202	104.00	.60000	1119.0	.6750-01	.5040-01	.7950-01	.9278	.2797-02	.4406-02	.3750	2.768	545.1
202	104.00	.80000	1120.0	.7680-01	.5520-01	.9290-01	.9278	.3063-02	.5150-02	.3710	2.779	558.4
202	104.00	.87500	1121.0	.1193	.8510-01	.1452	.9278	.4719-02	.8053-02	.5590	4.131	560.9
202	135.00	.11500	1122.0	.1391	.1004	.1677	.9278	.5570-02	.9298-02	.6810	5.027	557.1
202	135.00	.14600	1123.0	.4270-01	.3200-01	.5020-01	.9278	.1773-02	.2784-02	.2400	1.779	544.3
202	135.00	.20000	1125.0	.8230-01	.6050-01	.9800-01	.9278	.3356-02	.5436-02	.4300	3.183	551.2
202	135.00	.30000	1126.0	.8050-01	.5950-01	.9540-01	.9278	.3299-02	.5292-02	.4300	3.182	549.2
202	135.00	.50000	1127.0	.8070-01	.5970-01	.9560-01	.9278	.3310-02	.5300-02	.4320	3.150	548.8
202	135.00	.60000	1128.0	.1068	.7830-01	.1274	.9278	.4340-02	.7062-02	.5520	4.057	552.1
202	135.00	.70000	1129.0	.8510-01	.6230-01	.1017	.9278	.3453-02	.5639-02	.4370	3.252	552.9
202	135.00	.80000	1130.0	.8670-01	.6110-01	.1066	.9278	.3389-02	.5510-02	.3900	2.913	564.4
202	135.00	.87500	1131.0	.8860-01	.6160-01	.1107	.9278	.3415-02	.6137-02	.3780	2.771	568.8
202	135.00	.92500	1132.0	.6000-01	.4210-01	.7390-01	.9278	.2336-02	.4100-02	.2660	1.956	565.4
202	135.00	.95300	1133.0	.1821	.1230	.2074	.9373	.6820-02	.1150-01	.7130	5.306	574.8
202	135.00	.96700	1134.0	.1700	.1150	.1935	.9373	.6377-02	.1073-01	.6690	4.977	574.4
202	135.00	.98000	1135.0	.1644	.1127	.1860	.9373	.6247-02	.1031-01	.6740	4.943	571.4
202	135.00	.99400	1136.0	.1653	.1144	.1864	.9373	.6341-02	.1033-01	.6990	5.140	569.2
202	155.00	.43000-01	1212.0	.2842	.1994	.3205	.9367	.1106-01	.1777-01	1.258	9.244	565.6
202	155.00	.50000-01	1213.0	.3006	.2124	.3380	.9367	.1178-01	.1874-01	1.364	10.03	563.6
202	155.00	.57000-01	1214.0	.2851	.1965	.3240	.9367	.1090-01	.1796-01	1.192	8.738	570.0
202	155.00	.63000-01	1215.0	.2456	.1702	.2785	.9367	.9440-02	.1544-01	1.044	7.661	568.7
202	155.00	.90000-01	1216.0	.2234	.1564	.2522	.9367	.8670-02	.1399-01	.9820	7.209	566.2
202	155.00	.10000+00	1217.0	.2470	.1722	.2794	.9367	.9547-02	.1549-01	1.070	7.857	567.3
201	175.00	.95300	1016.0	.1600	.1100	.1808	.9373	.6102-02	.1003-01	.6660	5.130	572.4
201	175.00	.96700	1017.0	.1343	.9010-01	.1533	.9373	.4996-02	.8500-02	.5180	3.792	577.9
201	175.00	.98000	1018.0	.1110	.7660-01	.1253	.9373	.4247-02	.6946-02	.4670	3.408	571.6

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7C23)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) SRB DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
201	175.00	.99400	1019.0	.1023	.7160-01	.1147	.9373	.3971-02	.6360-02	.4510	3.258	567.8
201	180.00	.11500	1000.0	.1248	.9060-01	.1500	.9278	.5023-02	.8319-02	.6240	4.600	557.3
201	180.00	.20000	1001.0	.4540-01	.3400-01	.5340-01	.9278	.1888-02	.2959-02	.2570	1.904	545.6
201	180.00	.22500	1002.0	.5070-01	.3790-01	.5960-01	.9278	.2104-02	.3303-02	.2850	2.115	546.0
201	180.00	.25000	1003.0	.6960-01	.5180-01	.8220-01	.9278	.2873-02	.4559-02	.3820	2.831	548.5
201	180.00	.30000	1004.0	.1028	.7550-01	.1226	.9278	.4184-02	.6797-02	.5360	3.959	553.5
201	180.00	.40000	1005.0	.8910-01	.6570-01	.1059	.9278	.3644-02	.5871-02	.4730	3.384	551.8
201	180.00	.50000	1006.0	.1524	.1104	.1835	.9278	.6121-02	.1018-01	.7560	5.499	558.0
201	180.00	.55000	1007.0	.1450	.1054	.1740	.9278	.5844-02	.9647-02	.7290	5.311	556.7
201	180.00	.60000	1008.0	.1219	.8930-01	.1454	.9278	.4952-02	.8065-02	.6310	4.663	554.0
201	180.00	.65000	1009.0	.1151	.8450-01	.1371	.9278	.4687-02	.7604-02	.6010	4.413	553.2
201	180.00	.70000	1010.0	.9310-01	.6780-01	.1117	.9278	.3759-02	.6193-02	.4710	3.593	556.3
201	180.00	.75000	1011.0	.1460	.1006	.1826	.9278	.5580-02	.1013-01	.6120	4.799	571.9
201	180.00	.80000	1012.0	.1103	.7620-01	.1375	.9278	.4228-02	.7624-02	.4670	3.539	571.0
201	180.00	.87500	1013.0	.1872	.1307	.2317	.9278	.7250-02	.1285-01	.8190	6.005	568.6
201	180.00	.92500	1014.0	.9250-01	.6710-01	.1112	.9278	.3722-02	.6168-02	.4620	3.417	557.4
202	184.25	.96500	1220.0	.1797	.1226	.2037	.9373	.6801-02	.1129-01	.7280	5.417	572.4
202	184.25	.97500	1221.0	.1481	.9880-01	.1695	.9373	.5481-02	.9397-02	.5600	4.145	577.2
202	184.25	.98500	1222.0	.1202	.8320-01	.1355	.9373	.4612-02	.7513-02	.5060	3.740	569.2
202	184.25	.99500	1223.0	.1095	.7690-01	.1227	.9373	.4262-02	.6805-02	.4850	3.566	565.5
202	185.00	.50000-01	1209.0	.2605	.1943	.2958	.9367	.1078-01	.1640-01	1.351	10.05	554.0
202	185.00	.90000-01	1210.0	.2060	.1450	.2320	.9367	.8043-02	.1286-01	.9230	6.785	564.6
202	185.00	.10000+00	1211.0	.2228	.1569	.2509	.9367	.8699-02	.1391-01	.9990	7.342	564.6
202	185.00	.96500	1224.0	.1295	.9010-01	.1457	.9373	.4996-02	.8079-02	.5570	4.090	567.8
202	200.00	.97500	1225.0	.1263	.8700-01	.1426	.9373	.4826-02	.7908-02	.5279	3.863	570.2
202	200.00	.98500	1226.0	.9100-01	.6330-01	.1023	.9373	.3510-02	.5675-02	.3920	2.893	567.8
202	200.00	.99500	1227.0	.9830-01	.6850-01	.1105	.9373	.3798-02	.6129-02	.4250	3.130	567.5
202	200.00	.50000-01	1206.0	.3132	.2252	.3496	.9367	.1249-01	.1939-01	1.510	11.21	558.5
202	215.00	.90000-01	1207.0	.1773	.1262	.1987	.9367	.7000-02	.1102-01	.8260	6.077	561.5
202	215.00	.10000+00	1208.0	.1942	.1382	.2177	.9367	.7666-02	.1207-01	.9040	6.651	561.5
202	220.00	.96500	1228.0	.5820-01	.4200-01	.6450-01	.9373	.2326-02	.3578-02	.2830	2.102	557.7
202	220.00	.97500	1229.0	.5450-01	.3910-01	.6060-01	.9373	.2167-02	.3360-02	.2600	1.926	559.5
202	220.00	.98500	1230.0	.4870-01	.3470-01	.5380-01	.9373	.1925-02	.2984-02	.2310	1.719	559.4
202	220.00	.99500	1231.0	.9400-01	.6650-01	.1049	.9373	.3694-02	.5815-02	.4310	3.171	562.7
201	225.00	.11500	1020.0	.1126	.8220-01	.1348	.9278	.4560-02	.7473-02	.5760	4.252	555.2
201	225.00	.14300	1021.0	.1079	.7990-01	.1279	.9278	.4428-02	.7092-02	.5800	4.294	550.5
201	225.00	.17100	1022.0	.1080	.7970-01	.1283	.9278	.4417-02	.7113-02	.5730	4.241	551.7
201	225.00	.20000	1023.0	.6810-01	.6580-01	.1038	.9278	.3650-02	.5755-02	.4910	3.641	547.0
201	225.00	.30000	1024.0	.6410-01	.4770-01	.7580-01	.9278	.2543-02	.4201-02	.3510	2.597	548.8
201	225.00	.40000	1025.0	.1468	.1062	.1769	.9278	.5889-02	.9807-02	.7250	5.175	558.3
201	225.00	.50000	1026.0	.1979	.1340	.2287	.9278	.7431-02	.1268-01	.8830	6.430	562.7
201	225.00	.55000	1027.0	.1544	.1119	.1858	.9278	.6206-02	.1030-01	.7680	5.624	557.8
201	225.00	.60000	1028.0	.1351	.9870-01	.1617	.9278	.5471-02	.8964-02	.6910	5.100	555.2

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AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7C23)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) SRB DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
201	225.00	.65000	1029.0	.1187	.8720-01	.1415	.9278	.4834-02	.7845-02	.6200	4.550	553.3
201	225.00	.70000	1030.0	.1025	.7410-01	.1234	.9278	.4111-02	.6843-02	.5070	3.798	558.3
201	225.00	.80000	1031.0	.1368	.9610-01	.1685	.9278	.5330-02	.9345-02	.6100	4.557	567.0
201	225.00	.87500	1032.0	.3940-01	.2870-01	.4730-01	.9278	.1591-02	.2624-02	.1990	1.499	556.4
201	225.00	.92500	1033.0	.5490-01	.4030-01	.6550-01	.9278	.2233-02	.3635-02	.2850	2.111	554.0
201	230.00	.95300	1034.0	.4060-01	.2940-01	.4490-01	.9373	.1632-02	.2491-02	.2020	1.515	557.7
201	230.00	.96700	1035.0	.3540-01	.2560-01	.3930-01	.9373	.1417-02	.2178-02	.1730	1.294	559.2
201	230.00	.98000	1036.0	.4870-01	.3490-01	.5400-01	.9373	.1937-02	.2997-02	.2340	1.722	560.8
201	230.00	.99000	1037.0	.3906	.2693	.4438	.9367	.1493-01	.2461-01	1.633	11.97	570.0
202	245.00	.43000-01	1200.0	.3088	.2214	.3451	.9367	.1228-01	.1914-01	1.474	10.87	559.3
202	245.00	.50000-01	1201.0	.2930	.2009	.3339	.9367	.1114-01	.1851-01	1.203	8.814	571.4
202	245.00	.57000-01	1202.0	.2412	.1677	.2731	.9367	.9298-02	.1514-01	1.036	7.605	567.9
202	245.00	.63000-01	1203.0	.1704	.1207	.1915	.9367	.6692-02	.1062-01	.7790	5.728	563.0
202	245.00	.90000-01	1204.0	.2189	.1527	.2475	.9367	.8465-02	.1373-01	.9500	6.975	567.1
202	245.00	.10000+00	1205.0	.7963	.4640	.5205	.9870	.2573-01	.2886-01	2.101	15.03	599.8
201	270.00	.00000	1039.0	.4934	.3380	.5622	.9367	.1875-01	.3116-01	2.028	14.84	573.3
201	270.00	.80000-02	1040.0	.3303	.2327	.3718	.9367	.1290-01	.2062-01	1.487	10.92	566.2
201	270.00	.50000-01	1041.0	.3187	.2110	.3688	.9367	.1170-01	.2045-01	1.180	8.600	580.7
201	270.00	.10000+00	1042.0	.3162	.2100	.4078	.9278	.1165-01	.2261-01	1.182	8.620	580.0
201	270.00	.12000	1043.0	.4137	.2455	.5944	.9278	.1351-01	.3296-01	1.141	8.251	597.7
201	270.00	.12730	1044.0	.5766	.2868	1.046	.9278	.1591-01	.5799-01	1.078	7.736	613.7
201	270.00	.13400	1045.0	.7840-01	.5790-01	.9300-01	.9278	.3209-02	.5158-02	.4180	3.092	551.3
201	270.00	.17300	1046.0	.7290-01	.5440-01	.8600-01	.9278	.3016-02	.4767-02	.4040	2.995	547.6
201	270.00	.18000	1047.0	.7180-01	.5320-01	.8500-01	.9278	.2951-02	.4715-02	.3880	2.875	549.9
201	270.00	.18500	1048.0	.6810-01	.5040-01	.8070-01	.9278	.2797-02	.4473-02	.3670	2.720	550.1
201	270.00	.19300	1049.0	.6230-01	.4630-01	.7370-01	.9278	.2567-02	.4085-02	.3400	2.517	549.1
201	270.00	.20000	1050.0	.4180-01	.3150-01	.4900-01	.9278	.1745-02	.2718-02	.2400	1.782	544.0
201	270.00	.25000	1051.0	.4030-01	.3010-01	.4740-01	.9278	.1671-02	.2628-02	.2260	1.674	546.4
201	270.00	.30000	1052.0	.1003	.7350-01	.1196	.9278	.4075-02	.6635-02	.5200	3.669	554.0
201	270.00	.40000	1053.0	.6780-01	.4330-01	.8120-01	.9278	.2735-02	.4506-02	.3420	2.485	556.3
201	270.00	.50000	1054.0	.9840-01	.7150-01	.1182	.9278	.3963-02	.6553-02	.4930	3.616	557.0
201	270.00	.60000	1055.0	.8600-01	.6190-01	.1040	.9278	.3434-02	.5768-02	.4180	3.057	559.9
201	270.00	.70000	1056.0	.4909	.2982	.6885	.9278	.1654-01	.3818-01	1.435	10.94	594.7
201	270.00	.75000	1057.0	.9670-01	.6860-01	.1182	.9278	.3802-02	.6556-02	.4450	3.273	554.4
201	270.00	.80000	1058.0	.5090-01	.3720-01	.6090-01	.9278	.2064-02	.3376-02	.2610	1.930	554.9
201	270.00	.87500	1059.0	.6410-01	.4690-01	.7660-01	.9278	.2599-02	.4246-02	.3300	2.428	554.6
201	270.00	.92500	1060.0	.8360-01	.6050-01	.9250-01	.9374	.3353-02	.5131-02	.4130	3.262	558.3
201	270.00	.95300	1061.0	.7690-01	.5560-01	.8520-01	.9374	.3083-02	.4726-02	.3790	2.991	558.7
201	270.00	.96700	1062.0	.7510-01	.5420-01	.8320-01	.9374	.3006-02	.4615-02	.3680	2.836	559.0
201	270.00	.98000	1063.0	.8740-01	.6280-01	.9690-01	.9374	.3484-02	.5375-02	.4230	3.223	560.1
201	270.00	.99400	1064.0	.9620-01	.6970-01	.1157	.9278	.3865-02	.6414-02	.4790	3.530	557.7
201	315.00	.11500	1065.0	.1333	.9490-01	.1625	.9278	.5263-02	.9010-02	.6230	4.581	563.2
201	315.00	.14300	1066.0	.9070-01	.6580-01	.1090	.9278	.3650-02	.6044-02	.4530	3.345	557.3
201	315.00	.17100	1067.0									

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7C23)

IHN1(AEDC V41A-A4A) O T S (CONFIG 1) SRB DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
202	315.00	.20000	1068.0	.6870-01	.5060-01	.8160-01	.9278	.2808-02	.4526-02	.3640	2.692	551.9
202	315.00	.30000	1069.0	.5890-01	.4380-01	.6960-01	.9278	.2429-02	.3860-02	.3230	2.390	548.7
202	315.00	.50000	1070.0	.7820-01	.5660-01	.9420-01	.9278	.3136-02	.5222-02	.3860	2.801	558.3
202	315.00	.60000	1071.0	.6040-01	.4390-01	.7260-01	.9278	.2436-02	.4023-02	.3040	2.[illegible]43	5[illegible]6.8
202	315.00	.70000	1072.0	.1015	.7240-01	.1236	.9278	.4013-02	.6855-02	.4760	3.562	5[illegible].[illegible]
202	315.00	.80000	1073.0	.1295	.9040-01	.1602	.9278	.5014-02	.8882-02	.5670	4.226	5[illegible].5
202	315.00	.95300	1074.0	.4880-01	.3520-01	.5410-01	.9374	.1954-02	.2999-02	.2400	1.827	5[illegible].9

DATE 03 JUN 76

AEDC V41A-A4A (1H-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7C23)

1H41(AEDC V41A-A4A) O T S (CONFIG 1) SRB DATA

SOLID ROCKET BSTR

PARAMETRIC DATA

ALPHA = .0000 BETA = .0000 GRIT = 4.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
197	4.520	5.054	.1000-01	.0000	.0000	97.00	.3270	664.0	130.6	4.673	2531.	.2099-03
198	4.520	5.061	-.1000-01	.0000	.0000	97.10	.3270	664.0	130.6	4.678	2531.	.2102-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
197	.1051-06	.4734-01	.1140-01
198	.1051-06	.4737-01	.1139-01

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
198	.00000	.20000	1078.0	.1390-01	.1030-01	.1780-01	.9183	.4879-03	.8410-03	.6300-01	.4700	534.9
198	.00000	.40000	1079.0	.5220-01	.3820-01	.6790-01	.9183	.1909-02	.3215-02	.2240	1.611	540.1
198	.00000	.60000	1080.0	.6430-01	.4670-01	.8440-01	.9183	.2210-02	.3998-02	.2680	1.992	542.8
198	.00000	.70000	1081.0	.4310-01	.3110-01	.5720-01	.9183	.1472-02	.2706-02	.1750	1.335	545.2
198	.00000	.75000	1082.0	.1371	.9280-01	.1966	.9183	.4393-02	.9305-02	.4520	3.562	561.4
198	.00000	.83000	1083.0	.1114	.7860-01	.1513	.9183	.3722-02	.7164-02	.4200	3.163	551.2
198	.00000	.95300	1084.0	.6240-01	.4330-01	.7560-01	.9302	.2048-02	.3580-02	.2220	1.686	556.0
198	.00000	.96700	1085.0	.2280-01	.1570-01	.2790-01	.9302	.7410-03	.1321-02	.7800-01	.5940	558.6
198	.00000	.99000	1086.0	.2440-01	.1680-01	.2970-01	.9302	.7957-03	.1407-02	.8500-01	.6610	557.3
198	45.000	.11500	1088.0	.1154	.8300-01	.1533	.9183	.3930-02	.7257-02	.4650	3.451	545.8
198	45.000	.14600	1089.0	.2560-01	.1910-01	.3280-01	.9183	.9026-03	.1555-02	.1170	.8710	534.8
198	45.000	.17700	1090.0	.3100-01	.2300-01	.3980-01	.9183	.1091-02	.1883-02	.1410	1.049	535.2
198	45.000	.60000	1091.0	.4900-01	.3610-01	.6340-01	.9183	.1708-02	.3001-02	.2150	1.603	538.2
198	45.000	.70000	1092.0	.5310-01	.3890-01	.6920-01	.9183	.1841-02	.3277-02	.2280	1.712	540.4
198	45.000	.80000	1093.0	.7250-01	.5220-01	.9610-01	.9183	.2472-02	.4548-02	.2940	2.181	545.3
198	76.000	.11500	1094.0	.1386	.9880-01	.1862	.9183	.4676-02	.8815-02	.5400	4.003	548.6
198	76.000	.12800	1095.0	.6370-01	.4700-01	.8240-01	.9183	.2223-02	.3902-02	.2800	2.089	538.0
198	76.000	.14600	1096.0	.3130-01	.2300-01	.4040-01	.9183	.1090-02	.1914-02	.1370	1.024	538.1
198	76.000	.20000	1097.0	.4780-01	.3530-01	.6150-01	.9183	.1672-02	.2912-02	.2130	1.589	536.6
198	76.000	.40000	1098.0	.5910-01	.4370-01	.7610-01	.9183	.2070-02	.3606-02	.2640	1.871	536.7

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7C23)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) SRB DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
198	76.000	.60000	1099.0	.5530-01	.4080-01	.7120-01	.9183	.1933-02	.3374-02	.2460	1.819	537.0
198	76.000	.80000	1100.0	.4170-01	.3050-01	.5450-01	.9183	.1443-02	.2582-02	.1770	1.319	541.1
198	76.000	.87500	1101.0	.4080-01	.2950-01	.5390-01	.9183	.1398-02	.2555-02	.1670	1.244	544.3
198	90.000	.50000-01	1102.0	.1840	.1313	.2204	.9295	.6217-02	.1044-01	.7200	5.337	548.2
198	90.000	.10000+00	1103.0	.1920	.1356	.2315	.9295	.6424-02	.1097-01	.7260	5.375	551.0
198	90.000	.11500	1104.0	.1622	.1086	.2359	.9183	.5144-02	.1118-01	.5170	3.802	563.5
198	90.000	.14600	1105.0	.5170-01	.3810-01	.6680-01	.9183	.1807-02	.3166-02	.2280	1.701	537.7
198	90.000	.95300	1110.0	.1167	.8400-01	.1380	.9302	.3978-02	.6539-02	.4710	3.492	545.8
198	90.000	.96700	1111.0	.7850-01	.5650-01	.9270-01	.9302	.2677-02	.4390 02	.3180	2.358	545.4
198	90.000	.98000	1112.0	.8620-01	.6170-01	.1022	.9302	.2923-02	.4841-02	.3420	2.535	547.1
198	90.000	.99400	1113.0	.8390-01	.5990-01	.9960-01	.9302	.2839-02	.4720-02	.3300	2.446	547.8
198	104.00	.11500	1114.0	.1401	.9910-01	.1900	.9183	.4695-02	.8990 02	.5330	3.942	550.6
198	104.00	.12800	1115.0	.6030-01	.4430-01	.7810-01	.9183	.2099-02	.3700-02	.2630	1.960	538.7
198	104.00	.14600	1116.0	.4850-01	.3590-01	.6250-01	.9183	.1702-02	.2962-02	.2170	1.618	536.5
198	104.00	.20000	1117.0	.4390-01	.3250-01	.5640-01	.9183	.1539-02	.2674-02	.1970	1.466	536.3
198	104.00	.40000	1118.0	.4200-01	.3130-01	.5380-01	.9183	.1480-02	.2550-02	.1910	1.365	534.7
198	104.00	.60000	1119.0	.4630-01	.3430-01	.5940-01	.9183	.1626-02	.2815-02	.2090	1.548	535.6
198	104.00	.80000	1120.0	.5460-01	.3960-01	.7180-01	.9183	.1874-02	.3401-02	.2270	1.712	543.2
198	104.00	.87500	1121.0	.7480-01	.5390-01	.9910-01	.9183	.2555-02	.4695-02	.3040	2.264	545.1
198	135.00	.11500	1122.0	.1114	.8040-01	.1473	.9183	.3809-02	.6978 02	.4550	3.378	544.6
198	135.00	.14600	1123.0	.2390-01	.1780-01	.3060-01	.9183	.8408-03	.1449-02	.1090	.8110	534.8
198	135.00	.20000	1125.0	.3990-01	.2940-01	.5160-01	.9183	.1392-02	.2442-02	.1760	1.309	537.9
198	135.00	.30000	1126.0	.4660-01	.3440-01	.6010-01	.9183	.1631-02	.2845-02	.2070	1.546	536.9
198	135.00	.50000	1127.0	.4800-01	.3550-01	.6180-01	.9183	.1683-02	.2928-02	.2150	1.576	536.4
198	135.00	.60000	1128.0	.7320-01	.5380-01	.9490-01	.9183	.2550-02	.4496-02	.3200	2.364	538.7
198	135.00	.70000	1129.0	.5730-01	.4200-01	.7440-01	.9183	.1989-02	.3524-02	.2480	1.857	539.5
198	135.00	.80000	1130.0	.6020-01	.4310-01	.8040-01	.9183	.2044-02	.3807-02	.2390	1.805	546.9
198	135.00	.87500	1131.0	.5860-01	.4160-01	.7920-01	.9183	.1971-02	.3749-02	.2250	1.669	549.7
198	135.00	.92500	1132.0	.3590-01	.2560-01	.4820-01	.9183	.12 2-02	.2282-02	.1400	1.040	548.3
198	135.00	.95300	1133.0	.1044	.7290-01	.1258	.9302	.3459-02	.5960-02	.3810	2.861	553.9
198	135.00	.96700	1134.0	.1122	.7860-01	.1351	.9302	.3722-02	.6398-02	.4120	3.098	553.3
198	135.00	.98000	1135.0	.1102	.7770-01	.1321	.9302	.3680-02	.6256-02	.4140	3.063	551.6
198	135.00	.99400	1136.0	.1148	.8110-01	.1375	.9302	.3840-02	.6512-02	.4330	3.218	551.2
198	155.00	.43000-01	1212.0	.2729	.1920	.3300	.9295	.9094-02	.1563-01	1.018	7.533	552.1
198	155.00	.50000-01	1213.0	.2756	.1949	.3321	.9295	.9229-02	.1573-01	1.046	7.742	550.7
198	155.00	.57000-01	1214.0	.2451	.1704	.2988	.9295	.8072-02	.1415-01	.8800	6.498	555.1
199	155.00	.63000-01	1215.0	.2078	.1455	.2521	.9295	.6892-02	.1194-01	.7630	5.642	553.3
198	155.00	.90000-01	1216.0	.1909	.1348	.2303	.9295	.6385-02	.1091-01	.7210	5.335	551.1
198	155.00	.10000+00	1217.0	.2098	.1478	.2534	.9295	.7000-02	.1200-01	.7870	5.819	551.7
197	175.00	.95300	1016.0	.1149	.8040-01	.1385	.9302	.3836-02	.6556-02	.4210	3.271	553.7
197	175.00	.96700	1017.0	.1121	.7770-01	.1359	.9302	.3679-02	.6434-02	.3960	2.950	555.9
197	175.00	.98000	1018.0	.9060-01	.6400-01	.1084	.9302	.3029-02	.5132-02	.3430	2.527	551.1
197	175.00	.99400	1019.0	.8060-01	.5720-01	.9620-01	.9302	.2708-02	.4554-02	.3100	2.254	549.9

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7C23)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) SRB DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
197	180.00	.11500	1000.0	.9810-01	.7120-01	.1290	.9183	.3372-02	.6105-02	.4090	3.038	543.0
197	180.00	.20000	1001.0	.2400-01	.1780-01	.3070-01	.9183	.8450-03	.1455-02	.1090	.8160	534.8
197	180.00	.22500	1002.0	.2310-01	.1710-01	.2970-01	.9183	.8109-03	.1404-02	.1040	.7770	535.7
197	180.00	.25000	1003.0	.2790-01	.2070-01	.3580-01	.9183	.9783-03	.1694-02	.1260	.9370	535.8
197	180.00	.30000	1004.0	.4060-01	.3010-01	.5220-01	.9183	.1424-02	.2469-02	.1830	1.361	536.0
197	180.00	.40000	1005.0	.5890-01	.4330-01	.7620-01	.9183	.2051-02	.3607-02	.2580	1.858	538.4
197	180.00	.50000	1006.0	.9650-01	.7060-01	.1257	.9183	.3342-02	.5952-02	.4130	3.036	540.5
197	180.00	.55000	1007.0	.9530-01	.6980-01	.1241	.9183	.3305-02	.5874-02	.4100	3.011	540.1
197	180.00	.60000	1008.0	.9280-01	.6810-01	.1205	.9183	.3226-02	.5706-02	.4030	2.999	539.3
197	180.00	.65000	1009.0	.8400-01	.6170-01	.1089	.9183	.2919-02	.5157-02	.3650	2.699	539.1
197	180.00	.70000	1010.0	.7200-01	.5260-01	.9390-01	.9183	.2489-02	.4445-02	.3070	2.363	540.8
197	180.00	.75000	1011.0	.1807	.1259	.2495	.9183	.5961-02	.1181-01	.6530	5.169	554.6
197	180.00	.80000	1012.0	.8280-01	.5850-01	.1123	.9183	.2771-02	.5316-02	.3140	2.404	550.9
197	180.00	.87500	1013.0	.1175	.8310-01	.1593	.9183	.3932-02	.7539-02	.4460	3.301	550.8
197	180.00	.92500	1014.0	.6260-01	.4530-01	.8280-01	.9183	.2143-02	.3919-02	.2560	1.911	544.5
198	184.25	.96500	1220.0	.1473	.1021	.1786	.9302	.4834-02	.8458-02	.5230	3.923	556.0
198	184.25	.97500	1221.0	.1027	.7030-01	.1257	.9302	.3328-02	.5953-02	.3500	2.612	559.0
198	184.25	.98500	1222.0	.8840-01	.6210-01	.1061	.9302	.2943-02	.5024-02	.3290	2.442	552.2
198	184.25	.99500	1223.0	.8560-01	.6060-01	.1023	.9302	.2871-02	.4847-02	.3260	2.414	550.5
198	185.00	.50000-01	1209.0	.2690	.1940	.3197	.9295	.9191-02	.1514-01	1.095	8.183	544.9
198	185.00	.90000-01	1210.0	.1799	.1276	.2163	.9295	.6044-02	.1025-01	.6900	5.111	549.9
198	185.00	.10000+00	1211.0	.1694	.1343	.2278	.9295	.6362-02	.1079-01	.7260	5.377	549.9
198	200.00	.96500	1224.0	.1156	.8120-01	.1389	.9302	.3845-02	.6581-02	.4290	3.169	552.6
198	200.00	.97500	1225.0	.1099	.7710-01	.1321	.9302	.3653-02	.6258-02	.4060	3.005	552.8
198	200.00	.98500	1226.0	.7600-01	.5390-01	.9070-01	.9302	.2551-02	.4296-02	.2910	2.169	550.0
198	200.00	.99500	1227.0	.6670-01	.4700-01	.8000-01	.9302	.2225-02	.3790-02	.2490	1.851	551.9
198	215.00	.50000-01	1206.0	.3126	.2242	.3730	.9295	.1062-01	.1767-01	1.247	9.307	546.7
198	215.00	.90000-01	1207.0	.1626	.1164	.1942	.9295	.5514-02	.9197-02	.6450	4.780	547.1
198	215.00	.10000+00	1208.0	.1709	.1225	.2041	.9295	.5800-02	.9665-02	.6790	5.037	547.0
198	220.00	.96500	1228.0	.3820-01	.2750-01	.4520-01	.9302	.1302-02	.2140-02	.1540	1.151	545.8
198	220.00	.97500	1229.0	.5110-01	.3680-01	.6050-01	.9302	.1741-02	.2865-02	.2060	1.537	545.9
198	220.00	.98500	1230.0	.4000-01	.2880-01	.4720-01	.9302	.1364-02	.2237-02	.1620	1.214	545.4
198	220.00	.99500	1231.0	.5870-01	.4180-01	.6990-01	.9302	.1982-02	.3310-02	.2290	1.696	548.6
197	225.00	.11500	1020.0	.8420-01	.6150-01	.1099	.9183	.2913-02	.5203-02	.3590	2.671	540.9
197	225.00	.14300	1021.0	.4970-01	.3680-01	.6390-01	.9183	.1744-02	.3026-02	.2230	1.665	536.1
197	225.00	.17100	1022.0	.6650-01	.4900-01	.8610-01	.9183	.2318-02	.4077-02	.2920	2.172	538.4
197	225.00	.20000	1023.0	.6360-01	.4700-01	.8190-01	.9183	.2226-02	.3876 02	.2840	2.115	536.7
197	225.00	.30000	1024.0	.4490-01	.3310-01	.5800-01	.9183	.1568-02	.2745-02	.1980	1.477	537.7
197	225.00	.40000	1025.0	.6970-01	.5110-01	.9040-01	.9183	.2421-02	.4282-02	.3020	2.178	539.3
197	225.00	.50000	1026.0	.9520-01	.6970-01	.1240	.9183	.3298-02	.5868-02	.4080	3.009	540.3
197	225.00	.55000	1027.0	.1386	.1008	.1818	.9183	.4772-02	.8608-02	.5810	4.289	542.4
197	225.00	.60000	1028.0	.1182	8620-01	.1548	.9183	.4079-02	.7329-02	.4990	3.711	541.8
197	225.00	.65000	1029.0	.9560-01	.6970-01	.1251	.9183	.3300-02	.5920-02	.4040	2.987	541.6

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7C23)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) SRB DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHDT DEG. R /SEC	TW DEG. R
197	225.00	.70000	1030.0	.8800-01	.6370-01	.1160	.9183	.3015-02	.5494-02	.3630	2.738	543.9
197	225.00	.80000	1031.0	.9090-01	.6460-01	.1226	.9183	.3058-02	.5805-02	.3510	2.641	549.5
197	225.00	.92500	1033.0	.3720-01	.2710-01	.4890-01	.9183	.1281-02	.2317-02	.1550	1.159	542.8
197	230.00	.95300	1034.0	.2730-01	.1970-01	.3220-01	.9302	.9325-03	.1527-02	.1110	.8380	545.1
197	230.00	.96700	1035.0	.2540-01	.1830-01	.3000-01	.9302	.8647-03	.1420-02	.1020	.7710	545.7
197	230.00	.98000	1036.0	.2330-01	.1670-01	.2760-01	.9302	.7917-03	.1305-02	.9300-01	.6920	546.3
198	245.00	.43000-01	1200.0	.3740	.2606	.4554	.9295	.1235-01	.2157-01	1.352	9.987	554.6
198	245.00	.50000-01	1201.0	.2729	.1960	.3254	.9295	.9282-02	.1541-01	1.093	8.105	546.3
198	245.00	.57000-01	1202.0	.2619	.1809	.3208	.9295	.8570-02	.1520-01	.9200	6.791	556.7
198	245.00	.63000-01	1203.0	.2059	.1444	.2495	.9295	.6841-02	.1182-01	.7600	5.622	552.9
198	245.00	.90000-01	1204.0	.1371	.9790-01	.1641	.9295	.4637-02	.7771-02	.5380	3.990	548.0
198	245.00	.10000+00	1205.0	.1451	.1036	.1736	.9295	.4906-02	.8222-02	.5700	4.223	547.9
198	245.00	.00000	1038.0	.8257	.4943	.5519	.9870	.2340-01	.2613-01	1.936	13.97	581.5
197	270.00	.80000-02	1040.0	.5227	.3616	.6396	.9295	.1712-01	.3028-01	1.845	13.62	556.4
197	270.00	.50000-01	1041.0	.3146	.2231	.3784	.9295	.1056-01	.1791-01	1.205	8.922	550.1
197	270.00	.10000+00	1042.0	.1852	.1296	.2247	.9295	.6137-02	.1064-01	.6790	5.021	553.5
197	270.00	.12000	1043.0	.2634	.1795	.3743	.9183	.8498-02	.1772-01	.8860	6.528	559.9
197	270.00	.12700	1044.0	.3517	.2240	.5506	.9183	.1060-01	.2607-01	.9700	7.101	572.7
197	270.00	.13400	1045.0	.4562	.2536	.9249	.9183	.1200-01	.4379-01	.8970	6.515	589.4
197	270.00	.17300	1046.0	.7360-01	.5380-01	.9600-01	.9183	.2545-02	.4544-02	.3140	2.336	540.8
197	270.00	.18000	1047.0	.6580-01	.4860-01	.8480-01	.9183	.2299-02	.4017-02	.2920	2.174	537.3
197	270.00	.18600	1048.0	.6130-01	.4500-01	.7970-01	.9183	.2130-02	.3771-02	.2660	1.977	539.5
197	270.00	.19300	1049.0	.6110-01	.4470-01	.7940-01	.9183	.2118-02	.3759-02	.2630	1.959	539.9
197	270.00	.20000	1050.0	.5630-01	.4130-01	.7320-01	.9183	.1955-02	.3463-02	.2440	1.813	539.6
197	270.00	.25000	1051.0	.3150-01	.2330-01	.4050-01	.9183	.1104-02	.1917-02	.1410	1.053	536.3
197	270.00	.30000	1052.0	.2110-01	.1560-01	.2710-01	.9183	.7399-03	.1284-02	.9500-01	.7070	536.1
197	270.00	.40000	1053.0	.5970-01	.4380-01	.7740-01	.9183	.2075-02	.3666-02	.2600	1.846	539.1
197	270.00	.50000	1054.0	.3230-01	.2380-01	.4180-01	.9183	.1128-02	.1980-02	.1420	1.041	538.1
197	270.00	.60000	1055.0	.2600-01	.1910-01	.3390-01	.9183	.9027-03	.1604-02	.1120	.8280	540.1
197	270.00	.70000	1056.0	.4880-01	.3490-01	.6510-01	.9183	.1654-02	.3083-02	.1940	1.427	547.1
197	270.00	.75000	1057.0	.3532	.2260	.5490	.9183	.1070-01	.2599-01	.9870	7.606	572.0
197	270.00	.80000	1058.0	.5830-01	.4210-01	.7720-01	.9183	.1992-02	.3654-02	.2380	1.764	544.9
197	270.00	.87500	1059.0	.3810-01	.2780-01	.4970-01	.9183	.1318-02	.2351-02	.1630	1.210	540.7
197	270.00	.92500	1060.0	.4960-01	.3610-01	.6480-01	.9183	.1711-02	.3068-02	.2100	1.556	541.5
197	270.00	.95300	1061.0	.5410-01	.3930-01	.6360-01	.9302	.1859-02	.3012-02	.2250	1.790	543.2
197	270.00	.96700	1062.0	.5530-01	.4010-01	.6500-01	.9302	.1898-02	.3078-02	.2290	1.826	543.3
197	270.00	.98000	1063.0	.5820-01	.4210-01	.6850-01	.9302	.1995-02	.3241-02	.2400	1.867	543.6
197	270.00	.99400	1064.0	.6940-01	.5000-01	.8190-01	.9302	.2367-02	.3877-02	.2820	2.163	545.2
197	315.00	.11500	1065.0	.4940-01	.3620-01	.6420-01	.9183	.1716-02	.3039-02	.2140	1.591	539.6
197	315.00	.14300	1066.0	.9240-01	.6690-01	.1218	.9183	.3167-02	.5764-02	.3810	2.833	543.7
197	315.00	.17100	1067.0	.6170-01	.4480-01	.8090-01	.9183	.2122-02	.3831-02	.2580	1.918	542.5
197	315.00	.20000	1068.0	.4610-01	.3390-01	.5990-01	.9183	.1600-02	.2834-02	.1990	1.483	539.6
198	315.00	.30000	1069.0	.4800-01	.3530-01	.6230-01	.9183	.1670-02	.2949-02	.2090	1.555	539.1

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7C23)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) SRB DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
198	315.00	.50000	1070.0	.5010-01	.3630-01	.6590-01	.9183	.1720-02	.3121-02	.2080	1.520	543.3
198	315.00	.60000	1071.0	.3980-01	.2890-01	.5250-01	.9183	.1367-02	.2484-02	.1650	1.225	543.5
198	315.00	.70000	1072.0	.7540-01	.5380-01	.1013	.9183	.2545-02	.4797-02	.2940	2.217	548.6
198	315.00	.80000	1073.0	.4640-01	.3220-01	.6450-01	.9183	.1524-02	.3052-02	.1650	1.240	555.8
198	315.00	.95300	1074.0	.4750-01	.3430-01	.5590-01	.9302	.1623-02	.2649-02	.1940	1.493	544.5
198	315.00	.99400	1077.0	-.1290-01	-.9200-02	-.1540-01	.9302	-.4349-03	-.7298-03	-.5000-01	-.3760	549.5

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7C23)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) SRB DATA

SOLID ROCKET BSTR

PARAMETRIC DATA

ALPHA = .0000 BETA = .0000 GRIT = 4.000 RN/L = 5.000

TEST CONDITIONS

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSI	V FT/SEC	RHO SLUGS /FT3
154	5.500	4.958	.1000-01	.0000	.0000	177.9	.1910	744.0	105.5	4.050	2768.	.1521-03
155	5.500	4.984	.4000-01	.0000	.0000	178.0	.1910	741.0	105.1	4.050	2763.	.1527-03

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR REF(R) =.0175
154	.8492-07	.4479-01	.1365-01
155	.8463-07	.4477-01	.1362-01

TEST DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
155	.00000	.20000	1078.0	.2470-01	.2000-01	.2990-01	.9130	.8977-03	.1339-02	.1760	1.306	547.4
155	.00000	.40000	1079.0	.2970-01	.2400-01	.3620-01	.9130	.1073-02	.1619-02	.2060	1.469	551.8
155	.00000	.60000	1080.0	.5760-01	.4620-01	.7030-01	.9130	.2071-02	.3148-02	.3920	2.893	554.5
155	.00000	.70000	1081.0	.4000-01	.3210-01	.4880-01	.9130	.1438-02	.2187-02	.2720	2.061	554.7
155	.00000	.75000	1082.0	.1241	.9590-01	.1585	.9130	.4297-02	.7099-02	.7040	5.506	579.7
155	.00000	.80000	1083.0	.7930-01	.6290-01	.9820-01	.9130	.2816-02	.4398-02	.5070	3.788	563.7
155	.00000	.85300	1084.0	.7120-01	.5620-01	.8100-01	.9276	.2515-02	.3628-02	.4410	3.339	568.1
155	.00000	96700	1085.0	.4290-01	.3360-01	.4900-01	.9276	.1503-02	.2194-02	.2570	1.938	572.7
155	.00000	.98000	1086.0	.4580-01	.3590-01	.5220-01	.9276	.1608-02	.2340-02	.2770	2.135	571.4
155	.00000	.99400	1087.0	.2490-01	.1950-01	.2850-01	.9276	.8743-03	.1275-02	.1500	1.098	572..
155	.00000	.11500	1088.0	.1145	.9090-01	.1417	.9130	.4073-02	.6345-02	.7360	5.413	562.9
155	45.000	.14600	1089.0	.2940-01	.2400-01	.3530-01	.9130	.1075-02	.1583-02	.2170	1.611	542.0
155	45.000	.17700	1090.0	.2400-01	.1950-01	.2880-01	.9130	.8737-03	.1292-02	.1750	1.296	543.8
155	45.000	.60000	1091.0	4130-01	.3350-01	.5000-01	.9130	.1502-02	.2238-02	.2950	2.190	546.9
155	45.000	.70000	1092.0	.3170-01	.2560-01	.3830-01	.9130	.1148-02	.1717-02	.2240	1.676	548.4
155	45.000	.80000	1093.0	.6660-01	.5340-01	.8150-01	.9130	.2390-02	.3651-02	.4480	3 305	556.2
155	45.000	.11500	1094.0	.1339	.1061	.1662	.9130	.4753-02	.7443-02	.8510	6.254	564.6
155	76.000	.12800	1095.0	.6930-01	.5600-01	.8410-01	.9130	.2510-02	.3768-02	.4870	3.603	549.8
155	76.000	.14600	1096.0	.4440-01	.3600-01	.5360-01	.9130	.1614-02	.2402-02	.3160	2.361	546.4
155	76.000	.20000	1097.0	.3940-01	.3210-01	.4750-01	.9130	.1436-02	.2127-02	.2850	2.115	542.8

DATE 03 JUN 76 AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE (RV7C23)

(IH41(AEDC V41A-A4A) O T S (CONFIG 1) SRB DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
155	76.000	.40000	1098.0	.4770-01	.3880-01	.5750-01	.9130	.1739-02	.2572-02	.3460	2.449	542.2
155	76.000	.60000	1099.0	.4250-01	.3460-01	.5100-01	.9130	.1550-02	.2284-02	.3110	2.297	540.6
155	76.000	.80000	1100.0	.4920-01	.3980-01	.5960-01	.9130	.1780-02	.2667-02	.3450	2.560	547.1
155	76.000	.87500	1101.0	.3150-01	.2540-01	.3820-01	.9130	.1137-02	.1712-02	.2180	1.615	549.3
155	90.000	.50000-01	1102.0	.9870-01	.7920-01	.1114	.9267	.3544-02	.4989-02	.6640	4.909	553.7
155	90.000	.10000+00	1103.0	.1692	.1341	.1928	.9267	.6002-02	.8632-02	1.070	7.872	562.8
155	90.000	.11500	1104.0	.1466	.1130	.1881	.9130	.5058-02	.8420-02	.8170	5.957	579.7
155	90.000	.14600	1105.0	.4910-01	.3990-01	.5930-01	.9130	.1785-02	.2656-02	.3510	2.607	544.4
155	90.000	.95300	1110.0	.8260-01	.6670-01	.9240-01	.9276	.2987-02	.4137-02	.5770	4.275	548.0
155	90.000	.96700	1111.0	.7160-01	.5750-01	.8050-01	.9276	.2575-02	.3603-02	.4850	3.582	552.9
155	90.000	.98000	1112.0	.8540-01	.6840-01	.9610-01	.9276	.3062-02	.4304-02	.5690	4.205	555.1
155	90.000	.99400	1113.0	.8590-01	.6870-01	.9670-01	.9276	.3077-02	.4330-02	.5710	4.217	555.5
155	104.00	.11500	1114.0	.1239	.9800-01	.1541	.9130	.4388-02	.6900-02	.7770	5.716	564.0
155	104.00	.12800	1115.0	.6570-01	.5310-01	.7970-01	.9130	.2378-02	.3568-02	.4600	3.406	547.8
155	104.00	.14600	1116.0	.5770-01	.4690-01	.6960-01	.9130	.2100-02	.3117-02	.4150	3.085	543.4
155	104.00	.20000	1117.0	.3930-01	.3190-01	.4730-01	.9130	.1430-02	.2117-02	.2850	2.115	542.2
155	104.00	.40000	1118.0	.3670-01	.2990-01	.4410-01	.9130	.1340-02	.1975-02	.2690	1.911	540.5
155	104.00	.60000	1119.0	.4610-01	.3770-01	.5520-01	.9130	.1686-02	.2472-02	.3420	2.531	538.3
155	104.00	.80000	1120.0	.6030-01	.4880-01	.7310-01	.9130	.2186-02	.3272-02	.4250	3.202	546.9
155	104.00	.87500	1121.0	.7060-01	.5690-01	.8600-01	.9130	.2547-02	.3850-02	.4850	3.604	550.6
155	135.00	.11500	1122.0	.1106	.8860-01	.1356	.9130	.3965-02	.6073-02	.7370	5.439	555.3
155	135.00	.14600	1123.0	.2240-01	.1830-01	.2690-01	.9130	.8203-03	.1204-02	.1660	1.236	538.8
155	135.00	.17700	1124.0	.2100-01	.1720-01	.2520-01	.9130	.7693-03	.1128-02	.1560	1.162	538.3
155	135.00	.20000	1125.0	.2610-01	.2120-01	.3140-01	.9130	.9496-03	.1404-02	.1890	1.406	541.9
155	135.00	.30000	1126.0	.3770-01	.3060-01	.4540-01	.9130	.1371-02	.2031-02	.2720	2.022	542.6
155	135.00	.50000	1127.0	.2900-01	.2360-01	.3480-01	.9130	.1058-02	.1559-02	.2120	1.554	540.5
155	135.00	.60000	1128.0	.4850-01	.3950-01	.5830-01	.9130	.1769-02	.2610-02	.3540	2.617	540.9
155	135.00	.70000	1129.0	.4350-01	.3530-01	.5230-01	.9130	.1582-02	.2343-02	.3140	2.351	542.5
155	135.00	.80000	1130.0	.5640-01	.4530-01	.6890-01	9130	.2027-02	.3086-02	.3810	2.861	553.3
155	135.00	.87500	1131.0	.5630-01	.4500-01	.6930-01	.9130	.2014-02	.3101-02	.3710	2.735	557.1
155	135.00	.92500	1132.0	.3690-01	.2950-01	.4520-01	.9130	.1323-02	.2024-02	.2460	1.817	555.1
155	135.00	.95300	1133.0	.9410-01	.7470-01	.1066	.9275	.3343-02	.4771-02	.6000	4.491	561.7
155	135.00	.96700	1134.0	.1060	.8390-01	.1203	.9275	.3755-02	.5388-02	.6650	4.976	563.9
155	135.00	.98000	1135.0	.1093	.8680-01	.1236	.9275	.3887-02	.5535-02	.7010	5.160	560.8
155	135.00	.99400	1136.0	.1065	.8480-01	.1204	.9275	.3797-02	.5390-02	.6900	5.104	559.3
155	155.00	.43000-01	1212.0	.2450	.1951	.2782	.9267	.8734-02	.1245-01	1.589	11.71	559.2
155	155.00	.50000-01	1213.0	.2444	.1947	.2773	.9267	.8718-02	.1242-01	1.590	11.72	558.7
155	155.00	.57000-01	1214.0	.2265	.1784	.2591	.9267	.7987-02	.1160-01	1.393	10.23	566.7
155	155.00	.63000-01	1215.0	.2036	.1606	.2327	.9267	.7191-02	.1042-01	1.261	9.262	565.8
155	155.00	.90000-01	1216.0	.1736	.1373	.1980	.9267	.6147-02	.8865-02	1.089	8.007	563.9
155	155.00	.10000+00	1217.0	.1962	.1553	.2236	.9267	.6955-02	.1001-01	1.238	9.103	563.2
154	175.00	.95300	1016.0	.1004	.7880-01	.1145	.9275	.3532-02	.5130-02	.6110	4.710	570.7
154	175.00	.96700	1017.0	.1121	.8750-01	.1282	.9275	.3920-02	.5742-02	.6650	4.884	573.8

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7C23)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) SRB DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
154	175.00	.98000	1018.0	.9450-01	.7470-01	.1074	.9275	.3344-02	.4808-02	.5920	4.331	565.6
154	175.00	.99400	1019.1	.7990-01	.6340-01	.9040-01	.9275	.2840-02	.4049-02	.5120	3.705	563.2
154	180.00	.11500	1000.0	.1109	.8880-01	.1360	.9130	.3978-02	.5092-02	.7410	5.469	557.2
154	180.00	.20000	1001.0	.3870-01	.3140-01	.4660-01	.9130	.1409-02	.2085-02	.2800	2.082	544.5
154	180.00	.22500	1002.0	.3110-01	.2530-01	.3750-01	.9130	.1133-02	.1677-02	.2250	1.675	544.4
154	180.00	.25000	1003.0	.2540-01	.2070-01	.3060-01	.9130	.9287-03	.1378-02	.1870	1.396	542.7
154	180.00	.27500	1004.0	.2810-01	.2290-01	.3370-01	.9130	.1025-02	.1519-02	.2070	1.538	541.8
154	180.00	.30000	1005.0	.2850-01	.2310-01	.3430-01	.9130	.1036-02	.1536-02	.2060	1.478	545.0
154	180.00	.40000	1006.0	.9670-01	.7810-01	.1172	.9130	.3500-02	.5249-02	.6790	4.966	549.5
154	180.00	.50000	1007.0	.6650-01	.5380-01	.8040-01	.9130	.2412-02	.3602-02	.4720	3.453	547.8
154	180.00	.55000	1008.0	.8610-01	.6980-01	.1042	.9130	.3127-02	.4666-02	.6140	4.549	547.4
154	180.00	.60000	1009.0	.7340-01	.5950-01	.8880-01	.9130	.2666-02	.3977-02	.5230	3.851	547.4
154	180.00	.65000	1010.0	.5510-01	.4460-01	.6680-01	.9130	.1997-02	.2982-02	.3880	2.976	549.1
154	180.00	.70000	1011.0	.1502	.1183	.1876	.9130	.5300-02	.8401-02	.9290	7.300	568.3
154	180.00	.75000	1012.0	.5570-01	.4410-01	.6910-01	.9130	.1975-02	.3097-02	.3530	2.693	564.9
154	180.00	.80000	1013.0	.6770-01	.5370-01	.8390-01	.9130	.2404-02	.3759-02	.4320	3.173	564.1
154	180.00	.87500	1014.0	.4670-01	.3750-01	.5710-01	.9130	.1681-02	.2557-02	.3170	2.351	554.8
154	180.00	.92500	1015.0	.7150-01	.5670-01	.8870-01	.9130	.2538-02	.3972-02	.4550	3.377	564.4
154	180.00	.93900	1220.0	.8680-01	.6800-01	.9910-01	.9275	.3045-02	.4435-02	.5210	3.887	569.8
155	184.25	.95500	1221.0	.7750-01	.6060-01	.8870-01	.9275	.2712-02	.3970-02	.4600	3.414	571.5
155	184.25	.97500	1222.0	.9310-01	.7390-01	.1053	.9275	.3310-02	.4715-02	.5970	4.410	550.8
155	184.25	.98500	1223.0	.8930-01	.7130-01	.1007	.9275	.3194-02	.4507-02	.5890	4.348	556.7
155	184.25	.99500	1209.0	.2502	.2008	.2827	.9267	.8989-02	.1266-01	1.685	12.54	553.7
155	185.00	.50000-01	1210.0	.1868	.1479	.2129	.9267	.6621-02	.9531-02	1.178	8.667	563.1
155	185.00	.90000-01	1211.0	.1885	.1494	.2148	.9267	.6689-02	.9616-02	1.194	8.786	562.6
155	185.00	.10000+00	1224.0	.1002	.7940-01	.1136	.9275	.3556-02	.5085-02	.6350	4.672	562.5
155	200.00	.96500	1225.0	.1074	.8520-01	.1217	.9275	.3814-02	.5450-02	.6820	5.000	562.2
155	200.00	.97500	1226.0	.7880-01	.6280-01	.8890-01	.9275	.2812-02	.3981-02	.5140	3.819	558.2
155	200.00	.98500	1227.0	.6600-01	.5260-01	.7440-01	.9275	.2357-02	.3333-02	.4320	3.199	557.7
155	200.00	.99500	1206.0	.2732	.2184	.3096	.9267	.9777-02	.1386-01	1.803	13.40	556.7
155	215.00	.50000-01	1207.0	.1556	.1235	.1771	.9267	.5529-02	.7831-02	.9920	7.303	561.7
155	215.00	.90000-01	1208.0	.1597	.1270	.1816	.9267	.5684-02	.8131-02	1.027	7.561	560.5
155	215.00	.10000+00	1228.0	.4220-01	.3410-01	.4730-01	.9275	.1626-02	.2120-02	.2920	2.179	549.6
155	220.00	.96500	1229.0	.5670-01	.4570-01	.6360-01	.9275	.2047-02	.2848-02	.3910	2.914	550.1
155	220.00	.97500	1230.0	.4640-01	.3740-01	.5200-01	.9275	.1676-02	.2327-02	.3220	2.408	549.1
155	220.00	.98500	1231.0	.5500-01	.4420-01	.6170-01	.9275	.1977-02	.2764-02	.3730	2.758	552.5
155	220.00	.99500	1220.0	.8170-01	.6580-01	.9950-01	.9130	.2947-02	.4459-02	.5620	4.155	552.9
154	225.00	.11500	1221.0	.5460-01	.4440-01	.6600-01	.9130	.1987-02	.2954-02	.3930	2.912	546.0
154	225.00	.14300	1222.0	.7140-01	.5770-01	.8650-01	.9130	.2586-02	.3875-02	.5030	3.725	549.1
154	225.00	.17100	1223.0	.5560-01	.4510-01	.6700-01	.9130	.2031-02	.3002-02	.4000	2.970	545.5
154	225.00	.20000	1024.0	.2680-01	.2190-01	.3220-01	.9130	.9804-03	.1441-02	.1980	1.[illegible]	[illegible].3
154	225.00	.30000	1025.0	.4710-01	.3820-01	.5690-01	.9130	.1710-02	.2547-02	.3370	2.416	546.8
154	225.00	.40000	1026.0	.4640-01	.3760-01	.5600-01	.9130	.1684-02	.2509-02	.3310	2.433	546.9
154	225.00	.50000										

DATE 03 JUN 76

AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

RVTC23)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) SRB DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
154	225.00	.55000	1027.0	.5680-01	.4600-01	.6870-01	.9130	.2060-02	.3077-02	.4030	2.966	548.0
154	225.00	.60000	1028.0	.5610-01	.4550-01	.6790-01	.9130	.2039-02	.3039-02	.4010	2.970	547.1
154	225.00	.65000	1029.0	.5290-01	.4280-01	.6400-01	.9130	.1918-02	.2864-02	.3760	2.770	547.5
154	225.00	.70000	1030.0	.4880-01	.3900-01	.5850-01	.9130	.1745-02	.2605-02	.3370	2.534	550.6
154	225.00	.80000	1031.0	.7430-01	.5950-01	.9100-01	.9130	.2[illegible]-02	.4078-02	.4970	3.731	547.3
154	225.00	.92500	1033.0	.2010-01	.1630-01	.2430-01	.9130	.7[illegible]-03	.1090-02	.1420	1.054	548.9
154	225.00	.96300	1034.0	.1460-01	.1180-01	.1760-01	.9130	.5294-03	.7905-03	.1030	.7648	549.2
154	230.00	.96300	1034.0	.3460-01	.2790-01	.3670-01	.9276	.1248-02	.1735-02	.2330	1.802	551.7
154	230.00	.96700	1035.0	.3700-01	.2980-01	.4160-01	.9276	.1333-02	.1853-02	.2540	1.901	553.2
154	230.00	.98000	1036.0	.3560-01	.3090-01	.4330-01	.9276	.1386-02	.1938-02	.2660	1.933	554.7
154	230.00	.99000	1037.0	.3489	.2724	.3974	.9267	.1380-02	.1779-01	2.107	15.46	559.3
155	245.00	.43000-01	1200.0	.2592	.2071	.2936	.9267	.9878-02	.1315-01	1.710	12.62	556.7
155	245.00	.50000-01	1201.0	.2564	.2002	.2949	.9267	.8955-02	.1320-01	1.518	11.12	557.9
155	245.00	.57000-01	1202.0	.2139	.1683	.2448	.9267	.7535-02	.1098-01	1.311	9.620	557.2
155	245.00	.63000-01	1203.0	.1225	.9750-01	.1392	.9267	.4364-02	.6231-02	.7920	5.832	559.7
155	245.00	.90000-01	1204.0	.1219	.9710-01	.1383	.9267	.4348-02	.6193-02	.7930	5.847	558.7
155	245.00	.10000+00	1205.0	.1219	.9710-01	.1383	.9267	.2827-01	.3052-01	3.701	26.30	612.7
154	270.00	.60000	1039.0	.8814	.6311	.6814	.9870	.1842-01	.2733-01	3.079	22.50	576.4
154	270.00	.80000-02	1040.0	.5289	.4112	.6101	.9867	.1080-01	.1563-01	1.905	13.98	557.2
154	270.00	.50000-01	1041.0	.3066	.2412	.3491	.9867	.4023-02	.7082-02	.8800	6.467	564.8
154	270.00	.10000+00	1042.0	.1388	.1099	.1581	.9867	.9347-02	.1575-01	1.488	10.83	584.4
154	270.00	.12000	1043.0	.2723	.2087	.3516	.9130	.1154-01	.2114-01	1.643	11.86	601.1
154	270.00	.12700	1044.0	.3486	.2576	.4719	.9130	.1298-01	.2842-01	1.545	11.03	621.5
154	270.00	.13400	1045.0	.4214	.2898	.6346	.9130	.3168-02	.4819-02	.5990	4.419	554.7
154	270.00	.17300	1046.0	.8810-01	.7070-01	.1076	.9130	.2535-02	.3800-02	.4930	3.649	549.2
154	270.00	.18000	1047.0	.7000-01	.5660-01	.8480-01	.9130	.2521-02	.3801-02	.4840	3.584	551.5
154	270.00	.18600	1048.0	.6980-01	.5630-01	.8490-01	.9130	.2371-02	.3572-02	.4560	3.375	551.2
154	270.00	.19300	1049.0	.6560-01	.5290-01	.7970-01	.9130	.2239-02	.3385-02	.4320	3.201	550.4
154	270.00	.20000	1050.0	.6190-01	.5000-01	.7510-01	.9130	.1082-02	.1609-02	.2140	1.586	552.2
154	270.00	.25000	1051.0	.2980-01	.2420-01	.3590-01	.9130	.6755-03	.9996-03	.1350	1.001	544.1
154	270.00	.30000	1052.0	.1850-01	.1510-01	.2230-01	.9130	.1466-02	.2187-02	.2880	2.037	547.4
154	270.00	.40000	1053.0	.4040-01	.3270-01	.4880-01	.9130	.1111-02	.1661-02	.2170	1.583	548.1
154	270.00	.50000	1054.0	.3060-01	.2480-01	.3710-01	.9130	.2233-02	.3371-02	.4280	3.145	551.9
154	270.00	.60000	1055.0	.6190-01	.4990-01	.7530-01	.9130	.1544-02	.2347-02	.2920	2.141	554.6
154	270.00	.70000	1056.0	.4390-01	.3450-01	.5240-01	.9130	.9824-02	.1709-01	1.487	11.35	591.9
154	270.00	.75000	1057.0	.2899	.2189	.3816	.9130	.1190-02	.1764-02	.2310	1.710	548.1
154	270.00	.80000	1058.0	.3250-01	.2630-01	.3940-01	.9130	.7073-03	.1058-02	.1390	1.024	548.2
154	270.00	.87500	1059.0	.1950-01	.1580-01	.2360-01	.9130	.8956-03	.1340-02	.1750	1.291	548.4
154	270.00	.92500	1060.0	.2470-01	.2000-01	.2990-01	.9130	.1033-02	.1429-02	.2000	1.584	550.0
154	270.00	.95300	1061.0	.2850-01	.2300-01	.3190-01	.9276	.1127-02	.1566-02	.2170	1.718	551.3
154	270.00	.96700	1062.0	.3120-01	.2520-01	.3500-01	.9276	.1162-02	.1617-02	.2230	1.722	552.0
154	270.00	.98000	1063.0	.3220-01	.2600-01	.3610-01	.9276	.1466-02	.2049-02	.2780	2.122	554.2
154	270.00	.99400	1064.0	.4070-01	.3270-01	.4580-01	.9276	.1880-02	.2644-02	.3590	2.664	553.7
154	315.00	.11500	1065.0	.5210-01	.4200-01	.6350-01	.9130	.2978-02	.4575-02	.5520	4.068	558.3
154	315.00	.14300	1066.0	.8320-01	.6650-01	.1021	.9130					

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AEDC V41A-A4A (IH-41) AERO-HEATING TEST ON INTEGRATED VEHICLE

(RV7C23)

IH41(AEDC V41A-A4A) O T S (CONFIG 1) SRB DATA

RUN NUMBER	PHI	X/L	T/C NO	H/HREF R=0.95	H/HREF R=1.0	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
154	315.00	.17100	1067.0	.6490-01	.5180-01	.7950-01	.9130	.2320-02	.3560-02	.4310	3.177	557.9
154	315.00	.20000	1068.0	.3940-01	.3170-01	.4810-01	.9130	.1420-02	.2155-02	.2690	1.989	554.0
155	315.00	.30000	1069.0	.1760-01	.1420-01	.2130-01	.9130	.6369-03	.9537-03	.1240	.9190	548.9
155	315.00	.50000	1070.0	.3290-01	.2640-01	.4030-01	.9130	.1180-02	.1807-02	.2200	1.598	557.0
155	315.00	.60000	1071.0	.2680-01	.2150-01	.3280-01	.9130	.9637-03	.1470-02	.1810	1.337	555.7
155	315.00	.70000	1072.0	.4210-01	.3360-01	.5180-01	.9130	.1505-02	.2319-02	.2780	2.080	559.2
155	315.00	.80000	1073.0	.9200-02	.7300-02	.1150-01	.9130	.3251-03	.5148-03	.5700-01	.4260	568.1
155	315.00	.95300	1074.0	.4880-01	.3760-01	.5250-01	.9276	.1686-02	.2353-02	.3200	2.447	553.7
155	315.00	.98700	1075.0	.1410-01	.1120-01	.1590-01	.9276	.5031-03	.7100-03	.9300-01	.6970	558.8
155	315.00	.98000	1076.0	.3900-01	.2400-01	.3390-01	.9276	.1073-02	.1518-02	.1970	1.507	559.9
155	315.00	.99400	1077.0	.3220-01	.2560-01	.3640-01	.9276	.1148-02	.1631-02	.2090	1.562	561.7